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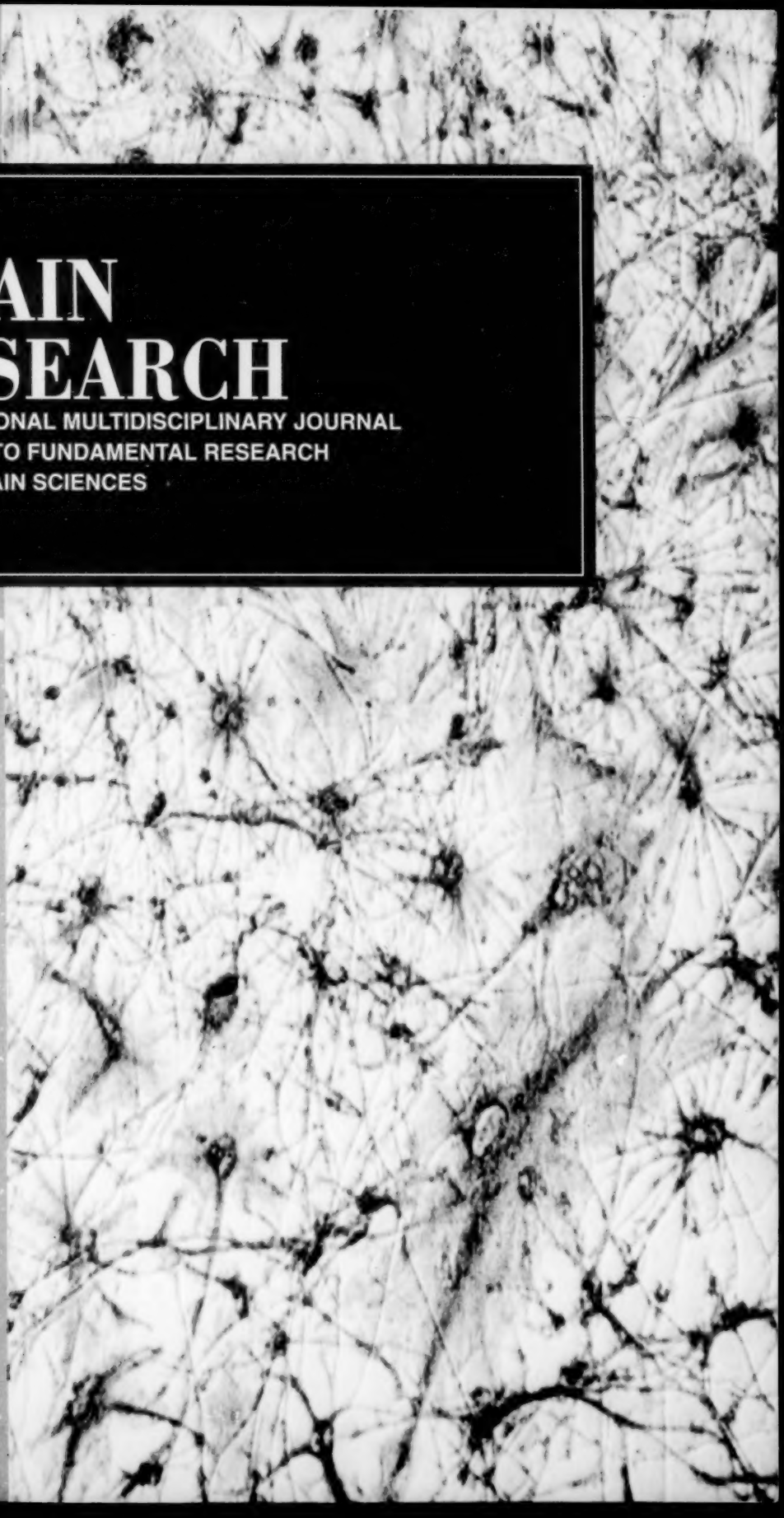

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AUTHOR AND SUBJECT INDEXES 1997

(including Developmental Brain Research, Molecular Brain Research, Brain Research Reviews, Cognitive Brain Research and Brain Research Protocols)

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Brain Research Vols. 815–850 (36 volumes in 72 issues) weekly	**Molecular Brain Research** Vols. 62–73 (12 volumes in 24 issues) * monthly	**Developmental Brain Research** Vols. 112–118 (7 volumes in 14 issues) monthly	**Brain Research Reviews** Vols. 29–31 (3 volumes in 9 issues)	**Cognitive Brain Research** Vol. 7 (1 volume in 4 issues) *	**Brain Research Protocols** Vols. 3 and 4 (2 volumes in 6 issues) *

* Please note that Volumes 62 (Issues no. 1 and 2) and 63 (Issue no. 1) of **Molecular Brain Research,** Volume 7 (Issues no. 1 and 2) of **Cognitive Brian Research,** and Volume 3 (Issues no. 1 and 2) of **Brain Research Protocols** were published ahead of schedule in 1998, in order to reduce publication time. The volumes remain part of the 1999 subscription year.

We apologize for the inconvenience these changes in schedule may cause.

Subscribers to the journal or its sections should note that the section titles are now prefixed with the main journal title in order to facilitate cataloguing. All sections should therefore be indexed under **Brain Research**.

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INTRODUCTION

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Brain Research Vols. 743–778	**Developmental Brain Research Vols. 98–104**	**Molecular Brain Research Vols. 41–50**	**Brain Research Reviews Vol. 24–25**	**Cognitive Brain Research Vol. 5**	**Brain Research Protocols Vol. 1**

Please note that the above schedule differs slightly from the 1997 publication schedule:

Volume 743 of **Brain Research** belongs to the 1997 subscription year but was published in 1996 and has been indexed in the 1996 index.

Volumes 41–43 of **Molecular Brain Research** were published in 1996 and have been indexed in the 1996 index. Volumes 51+52 belong to the 1998 subscription year but were published in 1997 and have been indexed in the present index.

Volume 23 of **Brain Research Reviews** has been indexed in the present index as its publication had been delayed. (Volume 23 belongs to the 1996 subscription year).

The Editor and Publisher of Brain Research welcome any comments on the usefulness of this index as well as suggestions for improvements.

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Alzheimer's disease; Huntington's disease; Glutamate; Peptide; Microglia; Striatum; Cerebral cortex (Passani, L.A. (772) 9)

Acetylcholine
Neuronal nicotinic; Lead; Metal; Receptor; Neuroblastoma; Ion current; Whole cell voltage clamp (Oortgiesen, M. (747) 1)

Thyrotropin-releasing hormone (TRH); Soman; Seizure; Metabolism; Excitotoxicity; Organophosphorus (Kubek, M.J. (747) 328)

Brain injury; Neocortex; Microdialysis; Rat (Dixon, C.E. (749) 127)

Cholinergic; Choline transport; Phosphoprotein phosphatase; Choline acetyltransferase (Cooke, L.J. (751) 232)

Drinking; Atropine; Streptozotocin; Diabetes mellitus; Lateral hypothalamus (Murzi, E. (752) 184)

Rat; Hippocampus; Acetate; Synaptic vesicle; Acetyl CoA synthetase; Vesamicol (Carroll, P.T. (753) 47)

Atropine; Hippocampus; CA1; LTP; Medial septal area; Current source density analysis; Ventral hippocampal commissure (Markevich, V. (754) 95)

Synaptic vesicle; Quantal release; Morphometry; Exocytosis; Endocytosis; Vesicle hypothesis; *Torpedo* electric organ; KCl stimulation; Sucrose stimulation (Fox, G.Q. (755) 47)

Cerebral cortex; Release; Galanin; Mastoparan (Consolo, S. (756) 174)

Cerebral cortex; Inhibitory interneuron; γ-Aminobutyric acid; Vasoactive intestinal polypeptide; Mirror technique (Bayraktar, T. (757) 209)

Muscarinic; Glutamate; γ-Aminobutyric acid (GABA); Inhibitory postsynaptic potentials (IPSPs); Neocortex; Disinhibition (Aramakis, V.B. (758) 107)

Nitric oxide; Rat; Bradykinin; Nitroglycerin; Brain; Superoxide anion; Oxygen radical (Mayhan, W.G. (760) 204)

Paraventricular nucleus; Stress ulcer; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

8-Hydroxy-2-(di-*n*-propylamino)tetralin; NAN-190; Serotonin$_{1A}$ receptor; Hippocampus; Microdialysis; Radioimmunoassay (Fujii, T. (761) 244)

Hippocampus; Working memory; 5-Hydroxytryptamine$_3$ (5-HT$_3$) receptor; Y-25130; Serotonin; Scopolamine; NMDA receptor (Ohno, M. (762) 211)

Glutamate; Long-term potentiation; Memory (Robinson, J.K. (765) 51)

Cerebellar granule cell; M_2 receptor; M_3 receptor; Transmitter release; Intracellular calcium (Beani, L. (765) 91)

Power spectrum; Carbachol; Nucleus reticularis pontis oralis; Electroencephalography (EEG); Brainstem (Garzón, M. (766) 266)

Hippocampus; Theta rhythm; Unilateral lesion; Serotonin; Noradrenaline; AMPA receptor (Van Praag, H. (768) 233)

Mechanical distortion; Kaolin-induced hydrocephalus; Basal ganglia; GABA; Dopamine; Immunohistochemistry (Tashiro, Y. (770) 45)

Epilepsy; Transfer; Kindling; Atropine; Muscarinic; Amygdala; Perirhinal cortex (Buchanan, J.-A.M. (771) 63)

Serotonin; *p*-Chloroamphetamine; 5-HT$_4$ receptor; Frontal cortex; Rat (Yamaguchi, T. (772) 95)

Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Memory; Neurosteroid; Steroid; Sulfatase (Rhodes, M.E. (773) 28)

Choline; Diffusion; Uptake; Caudate; Anterior thalamus; Agarose gel (Xin, Q. (776) 126)

Long-term potentiation; Noradrenaline; Muscarinic receptor; β-Adrenoceptor; Hippocampus (Kobayashi, M. (777) 242)

Active sleep; Sleep regulation; Ontogeny; Neonate (Frank, M.G. (778) 64)

Acetylcholine release
Morphine; Kainic acid; Olfactory tubercle; Caudate-putamen; Ventral striatum; Dorsal striatum; Dopamine; Serotonin (Guevara, B.H. (749) 139)

D2 dopamine receptor; Adenylate cyclase; Vesamicol; Striatum; Dissociated neuron (Login, I.S. (749) 147)

Kindling; Muscarinic receptor; Hippocampus; Microdialysis; Pentylenetetrazol (Serra, M. (751) 175)

Dopamine receptor; Neurokinin; 5-HT_2 receptor; Striatum (Ramírez, M.J. (757) 17)

Autoinhibition; Choline; Cyclic GMP; Hippocampus; Nitric oxide (NO) (Suzuki, T. (760) 158)

Acetylcholinesterase
Aging; Choline acetyltransferase; Cholinergic enzymatic assay; Cephalopod; *Sepia officinalis*; Central nervous system (Bellanger, C. (762) 219)

SN56 neuronal cell line; Tacrine; Calcium imaging; Calcium channels; Intracellular calcium; Neurons in culture (Doležal, V. (769) 219)

Acetyl CoA synthetase
Rat; Hippocampus; Acetate; Acetylcholine; Synaptic vesicle; Vesamicol (Carroll, P.T. (753) 47)

3-Acetylpyridine
Cerebellum; cGMP; ATP; Motor coordination; Pramipexole; Bromocriptine (Sethy, V.H. (754) 181)

AChE histochemistry
Rat; Perinatal lead exposure; Septohippocampal system; Cholinergic neurons; ChAT activity; ChAT immunocytochemistry; HC-3 binding (Bourjeily, N. (771) 319)

ACh receptor
Linoleic acid; Linolenic acid; Protein kinase C; Ca^{2+}, voltage-clamp; *Xenopus* oocytes (Nishizaki, T. (751) 253)

Acid fuchsin
Neurofilament, 68 kDa; Heat-shock protein; c-*fos*; Axonal injury; Cell death; Glial fibrillary acidic protein; Astroglia; Head trauma (Dunn-Meynell, A.A. (761) 25)

Acidic protease
Alzheimer's disease; β-Secretase; Cathepsin D; Recombinant βAPP; Swedish mutation; FCA18 antibody (Chevallier, N. (750) 11)

Acidosis
Ammonia; Carbon dioxide; Alkalosis; pH_i; *Xenopus* (Yoshii, K. (757) 202)

***Aconitum* alkaloids**
Hippocampus; Electrophysiology; Epileptiform activity (Ameri, A. (769) 36)

βA4 conjugate
Clathrin coated vesicle; Apolipoprotein E isoform; β-Amyloid; βA4 oligomers/aggregates; Dimyristoyl phosphatidylcholine liposome; *Tau* (Berg, M.J. (752) 72)

Acoustic startle reflex
Stress; Vasopressin; Corticotropin; Sensitization (Pelton, G.H. (778) 381)

***trans*-ACPD**
NMDA; KCl; Metabotropic; Intracellular calcium; σ Ligand; Neuroprotection; Neuronal culture (Klette, K.L. (756) 231)

Acquisition
Hippocampus; Subiculum; Operant learning; Electrolytic lesion; Ibotenic acid lesion; Retention (Govindaiah, (745) 121)

Ventral hippocampus; Passive avoidance; Consolidation; Retrieval; Tetrodotoxin functional inactivation (Ambrogi Lorenzini, C.G. (768) 242)

Acridine orange
Programmed cell death; Apoptosis; Necrosis; Rat; Neuron; Astrocyte; Heat shock; DNA fragmentation; TUNEL; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

Acrylamide
Neural regeneration; Film model; Neurofilament; Neurotubule; Migratory Schwann cell (Torigoe, K. (746) 269)

ACTH
Corticosterone; Suprachiasmatic nucleus; Adrenal cortex; Circadian; Stress; Paraventricular nucleus (Buijs, R.M. (758) 229)

Actin
Apis mellifera; Brain; Calmodulin; MARCKS; Protein kinase C (Müller, U. (757) 24)

Thyroid hormone; Neuronal differentiation; Cytoskeletal protein (Biswas, S.C. (757) 245)

Cyclophilin A; Peptidyl-prolyl *cis-trans* isomerase; Molecular chaperone; Protein folding; Axon; Slow axonal transport; Data searching (Yuan, A. (771) 203)

Actinomycin D
GnRH; Phorbol ester; GT1 cell; DRB; Cycloheximide (Yeo, T.T. (752) 294)

Action potential
Dentate gyrus; Applied field; Paired-pulse facilitation; Synaptic plasticity (Foster, B. (758) 59)

HCl; Quinine; Voltage-gated current; Excitability (Furue, H. (776) 133)

Activator protein-1
Phenobarbital; Dependence; Withdrawal; MK-801 binding; c-*fos*; c-*jun* (Tanaka, S. (756) 35)

Active sleep
Phylogeny; Quiet sleep; PCPA; Lizard; Serotonin (Huitrón-Reséndiz, S. (761) 19)

Serotonin; 5-HT_2 receptor; Sleep development; REM sleep (Frank, M.G. (768) 287)

Sleep regulation; Ontogeny; Neonate; Acetylcholine (Frank, M.G. (778) 64)

Activin
Galanin; Nucleus tractus solitarius; Catecholamine; c-Fos; Immunocytochemistry; Rat (Matta, S.G. (759) 259)

Neurotrophic effect; Ca^{2+} influx; Ca^{2+} channel; Protein synthesis; Hippocampal neuron (Iwahori, Y. (760) 52)

θ Activity
BW 373U86; δ Opioid; Electroencephalography; Hippocampus; Naltrindole (Marrosu, F. (776) 24)

Activity-dependent gene expression
Epilepsy; Motor cortex; Immediate early gene; c-*fos*; *zif*268/*egr*-1; Tetanus toxin (Liang, F. (778) 281)

Activity feedback
Non-photic; Entrainment; Serotonin; Suprachiasmatic nucleus; Circadian rhythm; Mouse; c-*fos*; 5,7-Dihydroxytryptamine (Bradbury, M.J. (768) 125)

Activity pattern
Cortical reorganization; Neuronal plasticity; Extracellular recording; Single unit activity (Webster, H.H. (750) 109)

Acupuncture
Cholecystokinin octapeptide CCK-8; Seizure; Opioid; Neuropeptide (Zhang, L.-X. (745) 158)

Acutely dissociated neuron
Opioid receptor; Calcium channel; Calcium current; Basal forebrain; Cholinergic (Soldo, B.L. (758) 118)

Basal forebrain; Whole-cell patch-clamp; Phosphorylation; Signal transduction (Jassar, B.S. (775) 127)

Acute-phase
Amyloid P component; Inflammation; Pentraxin; PHF-1 (Duong, T. (749) 152)

Acute treatment
Male sexual behavior; Glutamate receptors; Kainic acid; Dose-dependent effect (Drago, F. (778) 135)

Adaptation
Temperature; Amiloride analog; Chorda tympani nerve; Transduction (Lundy, Jr., R.F. (744) 309)

Addiction
Ibogaine; Noribogaine; Morphine; κ-Opioid receptor; *N*-Methyl-D-aspartate receptor; Drug self-administration; In vivo microdialysis (Glick, S.D. (749) 340)

A-delta
Tachykinin; Nociception; Pain; C fiber; Thermal; RIA (Zachariou, V. (752) 143)

Adeno-associated virus
Gene therapy; Inferior colliculus; Seizure; γ-Aminobutyric acid (GABA); Antisense (Xiao, X. (756) 76)

Adenohypophysis
Microdialysis; Somatostatin; Growth hormone; Food deprivation; Circadian rhythm (Ishikawa, M. (749) 226)

Adenosine
Caffeine; Bright light; Melatonin; Temperature; Circadian rhythm; Sleep deprivation (Wright Jr., K.P. (747) 78)

Motor impairment; Ethanol; Intracerebellar; cAMP; Mouse (Dar, M.S. (749) 263)

Adenosine deaminase inhibitor; A_1 and A_{2A} adenosine receptor; Superior colliculus; Neurotransmission (Ishikawa, S. (757) 268)

Cerebral blood flow; Hypercapnia; Nitric oxide; Caffeine; Cortical arousal; Electrocorticogram (Estevez, A.Y. (758) 1)

Substance P; Morphine; Spinal cord (Cahill, C.M. (760) 294)

Morphine; Opiate; Opioid; Drug tolerance; Drug withdrawal; Nucleoside transporter; Mouse brain (Kaplan, G.B. (763) 215)

Hypoxia; Free radical; Ischemia; Hippocampus (Fowler, J.C. (766) 255)

Guanosine; Thymidine; Choroid plexus; Nitric oxide synthase; L-NAME (Redžić, Z.B. (767) 26)

Ethanol; Chloride; Striatum; Rat (Meng, Z.-H. (776) 235)

Adenosine A_{2b} receptor
Long-term potentiation; Purinoceptor; Synaptic transmission; Excitatory post-synaptic potential (Kessey, K. (756) 184)

Adenosine A_1 receptor
Amygdala; Kindling; Seizure; 2-Chloroadenosine; Caffeine (Pourgholami, M.H. (775) 37)

Adenosine deaminase
Organotypic hippocampal culture; Excitotoxicity; Neuron/glia interaction; Neuroprotection; Ischemia; NOS inhibitor (Barth, A. (762) 79)

Adenosine deaminase inhibitor
Adenosine; A_1 and A_{2A} adenosine receptor; Superior colliculus; Neurotransmission (Ishikawa, S. (757) 268)

Adenosine receptor
Adenylyl cyclase; Brain; Dopamine; Tyrosine hydroxylase (Choksi, N.Y. (761) 151)

Adenosine triphosphate (ATP)-sensitive potassium channel
Glibenclamide; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Dopamine; Norepinephrine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Adenosine triphosphate synthase subunit c
Oscillation; Cation current; Pore protein (McGeoch, J.E.M. (766) 188)

Adenovirus
β-Galactosidase; Gene transfer; Spinal cord; Immune response; Cyclosporin A; Clarke's nucleus; Red nucleus (Liu, Y. (768) 19)

Adenovirus vector
Gene transfer; Ischemia; Interleukin-1 receptor antagonist; Stroke (Yang, G.-Y. (751) 181)

Adenylate
ATP, extracellular; Hypometabolism (Lutz, P.L. (769) 281)

Adenylate cyclase
D2 dopamine receptor; Acetylcholine release; Vesamicol; Striatum; Dissociated neuron (Login, I.S. (749) 147)

Adenylyl cyclase
Adenosine receptor; Brain; Dopamine; Tyrosine hydroxylase (Choksi, N.Y. (761) 151)

ADHD
Dopamine; Neurotoxicity; Amphetamine; Narcolepsy (Yuan, J. (767) 172)

Adhesion molecule
Rat glial cell; Trophic factor; Extracellular matrix (Mahler, M. (775) 63)

ADP-ribosylarginine hydrolase
Immunohistochemistry; Mouse brain; Rat CSF; Western blotting; Arginine specific ADP-ribosylation (Miyaoka, T. (746) 1)

ADP-ribosylation
Kindling; Epilepsy; Hippocampus; Nitric oxide; Antiepileptic drug; Glyceraldehyde-3-phosphate dehydrogenase (Suzuki, K. (745) 109)

Adrenal
Splanchnic nerve; Spinal cord; Sympathetic column; Fluorogold; Corticotropin releasing hormone (Li, C. (767) 87)

Adrenal chromaffin cell
Histamine H_1 receptor; Homologous desensitization; Catecholamine secretion; $[Ca^{2+}]_i$ response; Rat (Warashina, A. (762) 40)

Adrenal cortex
Corticosterone; ACTH; Suprachiasmatic nucleus; Circadian; Stress; Paraventricular nucleus (Buijs, R.M. (758) 229)

Adrenalectomy
Corticosteroid; Glucocorticoid; Immunohistochemistry; Western blot (Okuhara, D.Y. (745) 144)

Metrazole; *N*-Methyl-D,L-aspartate (NMA); Morphometry; Quantitative immunocytochemistry (Wintrip, N. (754) 113)

Self-stimulation; Cocaine; Reward; Corticosterone (Abrahamsen, G.C. (755) 156)

Granule cell death; Nissl and silver staining; Glucocorticoid receptor; Immunohistochemistry; Rat (Hu, Z. (778) 293)

Adrenal gland
Paraventricular nucleus; Stress ulcer; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

Autonomic nervous system; Glucagon; Glucose metabolism; Insulin; Pancreas (Jansen, A.S.P. (766) 29)

Adrenal medulla
N-Methyl-D-aspartate (NMDA) receptor; Chronic pain; Spinal cord; Peripheral neuropathy; Neuropeptide (Siegan, J.B. (755) 331)

Chromaffin cell; PC12 cell; FGF-2 isoform; Glucocorticoid; Postnatal development; Rat (Meisinger, C. (757) 291)

Adrenal steroid
Learning; Aldosterone; Type I receptor; Type II receptor; Spatial recognition memory; Discrimination memory (Conrad, C.D. (759) 76)

Adrenergic
Electrophysiology; Imidazoline; Inward rectification; Neuromodulation; Respiration; Tongue; Voltage clamp (Parkis, M.A. (769) 108)

α_2-Adrenergic receptor
Atipamezole; c-Fos; Locus coeruleus; Rostral ventrolateral medulla; Withdrawal; Catecholamine (Stornetta, R.L. (764) 81)

Adrenoceptor
Epiphysis cerebri; Glycogen; Lactic acid; Norepinephrine; Desensitization (Eugenín, E.A. (760) 34)

α_1-Adrenoceptor
α_2-Adrenoceptor; α_1-Adrenoceptor subtype; α_2-Adrenoceptor subtype; Post-mortem human brain; Suicide; Depression; Antidepressant drug (De Paermentier, F. (757) 60)

Immediate-early gene; Norepinephrine; Amygdala; *fos*; *zif/268*; β_1-Adrenoceptor (Stone, E.A. (778) 1)

α_2-Adrenoceptor
Imidazoline receptor; Microdialysis; Norepinephrine; Dopamine; Clonidine; Rat (Meana, J.J. (744) 216)

Isolation-rearing; Noradrenaline; Clonidine; Idazoxan; Hippocampus; Hypothalamus; Rat (Fulford, A.J. (748) 93)

α_1-Adrenoceptor; α_1-Adrenoceptor subtype; α_2-Adrenoceptor subtype; Post-mortem human brain; Suicide; Depression; Antidepressant drug (De Paermentier, F. (757) 60)

C-fiber; Polymodal nociceptor; Causalgia; Sympathetic pain; Sympathetic stimulation; Epinephrine; Nerve injury (O'Halloran, K.D. (759) 233)

Arterial blood pressure; Imidazoline receptor; H_2 histamine-like receptor; Ventrolateral medulla; Intracerebroventricular; Heart rate (Ally, A. (761) 283)

α_{2A}-Adrenoceptor
Autoradiography; α_{2C}-Adrenoceptor; [^{3}H]MK912; Spinal cord; Striatum (Uhlén, S. (770) 261)

α_{2C}-Adrenoceptor
Autoradiography; α_{2A}-Adrenoceptor; [^{3}H]MK912; Spinal cord; Striatum (Uhlén, S. (770) 261)

β-Adrenoceptor
Down syndrome; Trisomic mouse; Hippocampus; Cerebral cortex; Cerebellum (Dierssen, M. (749) 238)

Betaxolol; Serotonin-1A; Autoreceptor; Electroencephalogram; Power spectral analysis; Rapid eye movement (REM) (Seifritz, E. (759) 84)

Long-term potentiation; Acetylcholine; Noradrenaline; Muscarinic receptor; Hippocampus (Kobayashi, M. (777) 242)

β_1-Adrenoceptor
Immediate-early gene; Norepinephrine; Amygdala; *fos*; *zif/268*; α_1-Adrenoceptor (Stone, E.A. (778) 1)

α_1-Adrenoceptor subtype
α_1-Adrenoceptor; α_2-Adrenoceptor; α_2-Adrenoceptor subtype; Post-mortem human brain; Suicide; Depression; Antidepressant drug (De Paermentier, F. (757) 60)

α_2-Adrenoceptor subtype
α_1-Adrenoceptor; α_2-Adrenoceptor; α_1-Adrenoceptor subtype; Post-mortem human brain; Suicide; Depression; Antidepressant drug (De Paermentier, F. (757) 60)

Adrenocorticotropic hormone
Corticotropin releasing hormone; Corticosterone; Corticosteroid receptor; Paraventricular nucleus; Hippocampus; C-*fos* (Takemura, T. (767) 181)

Nitric oxide synthase; N^G-nitro-L-arginine methyl ester; Hypothalamic–pituitary–adrenal axis; Corticosterone; Immobilization stress (Tsuchiya, T. (776) 68)

Adrenocorticotropin
Adrenocorticotropin (ACTH); Corticosterone; Corticotropin releasing factor; Corticotropin releasing hormone; Vasopressin; Estradiol; Testosterone (Ogilvie, K.M. (766) 19)

Hippocampus; Cholinergic; Stress; Corticosterone; Theta; Fear (Bhatnagar, S. (766) 244)

Adrenocorticotropin (ACTH)
Adrenocorticotropin; Corticosterone; Corticotropin releasing factor; Corticotropin releasing hormone; Vasopressin; Estradiol; Testosterone (Ogilvie, K.M. (766) 19)

α_1-Adrenoreceptor
Catecholamine; Ventricular zone; Cell culture; DNA synthesis; Apoptosis (Pabbathi, V.K. (760) 22)

Adult neurogenesis
Carcinus maenas; Crustacean; Brain; Olfactory pathway; 5-Bromo-2′-deoxyuridine; BrdU; Neuron number (Schmidt, M. (762) 131)

Adult rat
Phrenic nerve; Recurrent laryngeal nerve; Coherence; High frequency oscillations; Medium frequency oscillations; Urethane; Barbiturate (Kocsis, B. (745) 309)

Aequorin luminescence
Signal transduction; Calcium release; Endoplasmic reticulum; Pressure injection (Vallet, A.M. (768) 91)

AF64-A
μ-Opioid receptor; Dopamine release; Methoctramine; Rat striatum; Microdialysis; γ-Aminobutyric acid (GABA) (Dourmap, N. (749) 295)

Afferent
Hypoglossal nerve; Tongue; Anuran; Sensory feedback (Anderson, C.W. (771) 285)

Afferent C-fiber
Cardiopulmonary receptor; Excitatory amino acid receptor; Neurogenic hypertension; Neurotransmission (Chianca Jr., D.A. (756) 46)

Afferent connections
Superior colliculus; Brainstem; Topographic projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (755) 279)

Agarose gel
Acetylcholine; Choline; Diffusion; Uptake; Caudate; Anterior thalamus (Xin, Q. (776) 126)

Agatoxin
Aging; Hippocampus; Field potential; Calcium channel type; Synaptic transmission; Conotoxin (Hall, S.C. (745) 339)

ω-Agatoxin IVA
Dopamine; Ischemia; Voltage-gated calcium channel; Striatum; ω-Conotoxin GVIA; Neomycin (Toner, C.C. (748) 85)

ω-Agatoxin IVA
P/Q-type Ca^{2+} channel; Focal ischemia; Brain edema; Infarct size; Neuroprotection (Asakura, K. (776) 140)

ω-Agatoxin-TK
Rat; Cerebral cortical neuron; Cell culture; Calcium current; Voltage-clamp; Synaptic transmission (Teramoto, T. (756) 225)

Age
Norepinephrine; Ethanol; Nomifensine; Uptake; Cerebellar cortex; Fischer 344 rat (Lin, A.M.-Y. (756) 287)

Reptile; Prenatal; Embryo; Differentiation; Brain; Sexual experience (Crews, D. (758) 169)

Aged rat
VIP; NPY; Somatostatin; Cerebral cortex; Loss of neurons; Irregular orientation; Immunocytochemistry (Cha, C.I. (753) 235)

Age-related
GnRH; LHRH mRNA; GnRH mRNA; Estrous cyclicity; Hypothalamus; Digoxigenin; In situ hybridization (Rubin, B.S. (770) 267)

Aggression
Scent marking; Medial preoptic area; Anterior hypothalamus; Stress (Bamshad, M. (744) 15)

Alcohol; Asymmetry; *Anolis carolinensis*; *Anolis*; Lateralization (Deckel, A.W. (756) 96)

Monogamy; Amygdala; Lateral septum (Wang, Z. (767) 321)

Aggressive behavior
Mouse; Monoamine oxidase; Transgenic animal; Histochemistry; Catecholamine; Serotonin; Species difference (Ikemoto, K. (771) 121)

Aging
PSA-NCAM; NCAM; Neuronal cell adhesion molecule; Polysialic acid; Memory deficit; Hippocampus; Immunohistochemistry; Western blot (Abrous, D.N. (744) 285)

Hippocampus; Field potential; Calcium channel type; Synaptic transmission; Conotoxin; Agatoxin (Hall, S.C. (745) 339)

c-*fos*; *jun*-B; Circadian rhythm; Light (Benloucif, S. (747) 34)

Glucose transport; Thyroid hormone; GLUT-1 (Mooradian, A.D. (747) 144)

Apoptosis; Programmed cell death; Inner ear; Cochleo-saccular degeneration; Mouse (Usami, S.-i. (747) 147)

Nootropic; Memory; Cognition enhancing; Alzheimer's disease (Woodruff-Pak, D.S. (747) 207)

Alzheimer's disease; Calcium; Cognition; Glucocorticoid; Memory; Morphometry; Stress (Dachir, S. (748) 175)

In vivo microdialysis; Choline acetyltransferase; Basal forebrain; Alzheimer's disease (Gibbs, R.B. (749) 143)

Somatostatin; Brain-derived neurotrophic factor; Gene expression; Primate; Central nervous system (Hayashi, M. (749) 283)

Hypothalamic paraventricular nucleus; Microdialysis, in vivo; [Leu^{31},Pro^{34}]NPY; Neuropeptide Y; Noradrenaline (Hastings, J.A. (750) 301)

Optical method; Hemoglobin oxygenation; Dementia; Blood flow; Neurodegeneration (Hock, C. (755) 293)

Serotonin 1A receptor; [^{3}H]8-OH-DPAT; Human brain postmortem; Neocortex; Hippocampus; Gender (Palego, L. (758) 26)

Neuroglia; Astrocyte; Glial fibrillary acidic protein; Gene expression; Sciatic axotomy (Kane, C.J.M. (759) 163)

Alzheimer's disease; Astrocyte; Cognition; Cysteamine; Hippocampus; Inclusions; Locomotion; Somatostatin (Justino, L. (761) 127)

Spinal cord; GM1 ganglioside; Cholinergic neuron; Choline acetyltransferase; High-affinity choline transport; Hemicholinium-3 binding (Vogelsberg, V. (761) 250)

Apoptosis; Olfactory neuron; Neural stem cell (Fung, K.-M. (761) 347)

Choline acetyltransferase; Acetylcholinesterase; Cholinergic enzymatic assay; Cephalopod; *Sepia officinalis*; Central nervous system (Bellanger, C. (762) 219)

Synaptic mitochondrion; Protein carbonyl; Thiol; Antioxidant (Banaclocha, M.M. (762) 256)

D_1 and D_2 dopamine receptors; Kainic acid (Zhang, L. (763) 264)

Caloric restriction; DA overflow; Mesostriatal; Mesolimbic; Electrochemistry, in vivo (Diao, L.H. (763) 276)

Ischemia; Preprotachykinin; Preproenkephalin; Striatum; Polymerase chain reaction (Tohgi, H. (768) 86)

Neurofibrillary degeneration; Amyloid; Tangle; Alzheimer's disease (Cebrián, J.L. (769) 173)

Neurofilament; Immunocytochemistry; Reticular formation; Brainstem; Cat (Zhang, J.-H. (769) 196)

Long-term potentiation; Nerve growth factor (Bergado, J.A. (770) 1)

Glutamate; GnRH; Hypothalamus; Puberty (Flynn, K.M. (771) 142)

Psychological stress; Hypothalamus; Noradrenaline; Intracerebral microdialysis (Wu, Y.L. (771) 347)

Diffuse plaque; Plaque type; Isoaspartate β-amyloid; Alzheimer's; Animal model; Beagle dog lifespan (Satou, T. (774) 35)

Alzheimer's disease; Cholinesterase inhibitor; Corticosterone (Dachir, S. (777) 251)

Agonist
Antagonist; Cholinergic; Medial preoptico-anterior hypothalamic area; Sleep; Thermoregulation; Wakefulness (Mallick, B.N. (750) 311)

5-HT_7; 5-HT_{1A}; Antagonist; Serotonin; Suprachiasmatic nucleus; Hippocampus; Cerebellum; Light; Entrainment; Photic response (Ying, S.-W. (755) 246)

Circadian; Rhythm; Clock; Melatonin; Mice; Syrian hamster (Van Reeth, O. (762) 185)

μ Agonist
Cholecystokinin; Somatostatin; μ Antagonist; κ Antagonist; Body temperature (Ghosh, S. (745) 152)

Agonist binding
GTP sensitivity; Radioiodinated ligand; Rat brain (Vessotskie, J.M. (778) 89)

AIDS
Mycoplasma fermentans; Brain; Sickness; Behavior; Body temperature; Prostaglandins (Yirmiya, R. (749) 71)

cNOS; iNOS; Neuron; Mouse; LP-BM5 virus; Dementia (Li, Y. (752) 107)

HIV; Central nervous system; Microglia; Astrocytes; Organotypic culture; Receptor; Endocytosis (Hao, H.-N. (764) 149)

Air-jet stimulation
Stroke; Cardiac susceptibility; Noise stress; Heart rate variability; Fast Fourier transformation (Cheung, R.T.F. (747) 181)

[D-Ala^2,Glu^4]deltorphin II
[D-Pen^2,D-Pen^5]enkephalin; δ_1-, δ_2-Opioid receptor agonist; Analgesia; Tolerance; Brain receptor (Zhao, G.-M. (745) 243)

Albumin
Zinc; Nagase analbuminemic rat; Choroid plexus; Ventricle; Blood–cerebrospinal fluid barrier; Hydrocephalus (Takeda, A. (769) 193)

Alcohol
Asymmetry; *Anolis carolinensis*; *Anolis*; Lateralization; Aggression (Deckel, A.W. (756) 96)

Membrane current; Snail; *Helix pomatia*; Invertebrate; Protein kinase C; G-Protein (Kerschbaum, H.H. (765) 30)

Axonal pruning; Ectopic neuron; Fetal alcohol syndrome; Neuronal generation; Neuronal migration (Miller, M.W. (766) 121)

Cell cycle; Fetal alcohol syndrome; Growth factor; Kinetics; Neuroblastoma; Proliferation; Receptor (Luo, J. (770) 139)

Purkinje neuron; Intracellular calcium; Fura-2; Glutamate receptor; Metabotropic glutamate receptor; Ionotropic glutamate receptor (Gruol, D.L. (773) 82)

Alcohol drinking
Alcohol-preferring rat; Dopamine ; 3-Methoxytyramine; Water drinking; Caudate-putamen; Nucleus accumbens; Olfactory tubercle (Honkanen, A. (774) 207)

Alcoholism
Anxiety; Amygdala; Stress; Emotionality (Möller, C. (760) 94)

Alcohol-preferring rat
Alcohol drinking; Dopamine ; 3-Methoxytyramine; Water drinking; Caudate-putamen; Nucleus accumbens; Olfactory tubercle (Honkanen, A. (774) 207)

Aldosterone
Learning; Adrenal steroid; Type I receptor; Type II receptor; Spatial recognition memory; Discrimination memory (Conrad, C.D. (759) 76)

(Na,K)-ATPase; In situ hybridization; Salt appetite (Grillo, C. (767) 120)

Alkaloid
Taste; Bitter; Chorda tympani; Glossopharyngeal; Multi-Dimensional Scaling (Dahl, M. (756) 22)

Alkalosis
Ammonia; Carbon dioxide; Acidosis; pH_i; *Xenopus* (Yoshii, K. (757) 202)

Allodynia
Tolerance; Chronic pain; Intrathecal; Opioid; Spinal cord (Yu, W. (756) 141)

Hyperalgesia; Interleukin-1β; Tumor necrosis factor-α; Basic fibroblast growth factor; Neuroimmune activation; Transforming growth factor-β (DeLeo, J.A. (759) 50)

Allopregnanolone
Brain; Circadian rhythm; Mouse; Neurosteroid; Estrous cycle; 5α-Pregnane-3,20-dione; Pregnenolone sulfate; Progesterone (Corpéchot, C. (766) 276)

$GABA_A$ receptor; Neurosteroid; Benzodiazepine; Medulla; 3α-Hydroxy-5α-pregnan-20-one; Female; Rat (Garrett, K.M. (768) 301)

Allopregnanolone synthesis from 3α HP
Pituitary; Synthesis of neuroactive 3αHP; Neurosteroid synthesis; 3α-Hydroxy-4-pregnen-20-one (3αHP) synthesis and metabolism; 3αHP; Steroidogenic pathway (Wiebe, J.P. (764) 158)

Alphaxalone
Alprazolam; Anxiolytic; Flumazenil; $GABA_A$ receptor; Muscimol; Neuroactive steroid; Staircase test (Pick, C.G. (765) 129)

Alprazolam
Alphaxalone; Anxiolytic; Flumazenil; $GABA_A$ receptor; Muscimol; Neuroactive steroid; Staircase test (Pick, C.G. (765) 129)

Alternative splicing
Glutamic acid decarboxylase; Neuron; γ-Aminobutyric acid; Reverse transcriptase–polymerase chain reaction (Yoshioka, A. (767) 333)

Alternative testing
Ion homeostasis; Brain microvasculature; Drug delivery; Brain tumor; Drug development; Cell culture; Neurodegenerative disorder (Stanness, K.A. (771) 329)

Aluminum
Neurofibrillary degeneration; Amyloid precursor protein; Aβ; α_1-Antichymotrypsin; Ubiquitin; Rabbit (Huang, Y. (771) 213)

Alveus
Str. radiatum; Epilepsy; Muscarinic receptor; γ-Aminobutyric acid (GABA); Inhibition; Status epilepticus (Sayin, Ü. (758) 136)

ALZ-50
Apoptosis; c-*fos*; Cell death; p53 (Miller, M.W. (769) 233)

Alzheimer's disease
β-Amyloid peptide; hNT cell; Ionophore; Calcium current; Patch clamp; Differentiated NT2 cell (Sanderson, K.L. (744) 7)

Cell morphology; Chloride channel; Glia; Intracellular calcium; Metal; Patch-clamp; Potassium channel (Jalonen, T.O. (746) 85)

Amyloid beta peptide; Amyloid precursor protein; PC12 cell; Endosome; Lysosome; Neurodegeneration (Burdick, D. (746) 275)

Glial cell line-derived neurotrophic factor; Parkinson's disease; Dopamine; Neurotrophic factor; Basal ganglia; Cholinergic function (Lapchak, P.A. (747) 92)

Nootropic; Memory; Cognition enhancing; Aging (Woodruff-Pak, D.S. (747) 207)

Rat; Presenilin-1; Presenilin-2; In situ hybridization (Takami, K. (748) 122)

Aging; Calcium; Cognition; Glucocorticoid; Memory; Morphometry; Stress (Dachir, S. (748) 175)

Amyloid β protein; Ca^{2+} uptake; Chlorpromazine; Cortical neuron; Neurotoxicity; PC12 cell; Phenothiazine (Ueda, K. (748) 184)

Cell culture; RNA; Amyotrophic lateral sclerosis; Parkinsonism-dementia; Guam; Axonal transport; Neurotoxin (Wakayama, I. (748) 237)

Apolipoprotein E; Aβ1–40; Late-onset: sporadic (Ishii, K. (748) 250)

Senile plaque; Binding; Inflammation (McGeer, P.L. (749) 135)

In vivo microdialysis; Choline acetyltransferase; Basal forebrain; Aging (Gibbs, R.B. (749) 143)

Cyclic AMP response element; ATF-2; Microglia; Neuron (Yamada, T. (749) 329)

β-Secretase; Cathepsin D; Acidic protease; Recombinant βAPP; Swedish mutation; FCA18 antibody (Chevallier, N. (750) 11)

Apolipoprotein E; Amyloid β-protein; Senile plaque; Laser scan microscopy (Nishiyama, E. (750) 20)

Colchicine; Learning; Memory; Glutamate; GABA; $GABA_B$ receptor; $GABA_B$ receptor antagonist (Yu, Z.F. (750) 53)

Brain damage; Bax; Bcl-2; Apoptosis; Programmed cell death; Hypoxic-ischaemia (MacGibbon, G.A. (750) 223)

ApoE-deficient mouse; Neurotrophic; Neurodegeneration; Synapse (Masliah, E. (751) 307)

Transglutaminase; Neurofibrillary tangle; Tau protein (Johnson, G.V.W. (751) 323)

Cytochrome oxidase; Quantitative cytochemistry; Inferior colliculus; Morphometry; Cellular energy metabolism (Gonzalez-Lima, F. (752) 117)

Apolipoprotein E (apoE); Behavior; Hippocampus; Memory; Mice; Immunocytochemistry (Oitzl, M.S. (752) 189)

Choline acetyltransferase; Parvalbumin; GABA; Septum; Diagonal band of Broca; Nucleus basalis; Striatum (Gibbs, R.B. (753) 141)

Astrocyte; β-Amyloid; Glutamate uptake; Glucose uptake (Parpura-Gill, A. (754) 65)

Amyloid β-protein; Amyloid β-protein precursor; Amyloid angiopathy; Choroid plexus; Immunohistochemistry; Systemic amyloidosis (Sasaki, A. (755) 193)

Apoptosis; Diethyldithiocarbamate; Dihydrorhodamine; Hippocampal neuron; 4-Hydroxynonenal; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Ouabain; Superoxide anion radical (Mark, R.J. (756) 205)

Choline acetyltransferase; p75NGFR; Nerve growth factor receptor; Immunocytochemistry (Gibbs, R.B. (757) 10)

S-182; Presenilin-1; Monoclonal antibody; Immunolabeling; Down syndrome; Rat; Mice (Kim, K.S. (757) 159)

Beta amyloid protein; Presenilin 2; Presenilin 1; Immunohistochemistry; Mouse brain (Blanchard, V. (758) 209)

α_1-Antichymotrypsin polymorphism; ApoE genotype; Parkinson's disease; Dementia; Genetic association (Yamamoto, M. (759) 153)

Menadione; Oxidative stress; Thiol oxidation; Tau dephosphorylation; Neuroblastoma culture (Ko, L.-w. (760) 118)

3,4-dihydroxyphenylglycolaldehyde; Apoptosis; Neurotoxin; Catecholamine; Neuronal death (Burke, W.J. (760) 290)

Aging; Astrocyte; Cognition; Cysteamine; Hippocampus; Inclusions; Locomotion; Somatostatin (Justino, L. (761) 127)

β-Amyloid; Cytotoxicity; Endothelial cell; Superoxide radical; Intracellular calcium (Suo, Z. (762) 144)

Hepatocyte growth factor; Hepatocyte growth factor activator; Astrocyte; mRNA (Yamada, T. (762) 251)

Amyloid β protein; Human amylin; Astrocytes; Reactive gliosis; Cellular redox activity (Abe, K. (762) 285)

Calcium activated neutral proteinase; Neurofibrillary tangle; Calcium; Calpain antibody; Cytoskeleton (Grynspan, F. (763) 145)

Protein kinase C; Calcium; Platelet; Brain; Leukocyte (Lanius, R.A. (764) 75)

Heme; Muscarinic receptor; Free radical; Thiyl radical; Antioxidant; Estrogen; Vitamin E (Venters Jr., H.D. (764) 93)

Amyloid β protein; Cerebral amyloid angiopathy; Squirrel monkey; Immunocytochemistry; Enzyme-linked immunosorbent assay (Sawamura, N. (764) 225)

Amyloid β protein; Amyloid precursor protein; Amyloid-associated proteins; Chloroquine retinopathy; Retinal ganglion cell (Yoshida, T. (764) 283)

Amyloid beta (Aβ); Cytotoxicity; Phosphorylation (Tan, S. (765) 159)

Brain dialysis; Oxygen free radical; Methylpyridinium; Azide; NMDA channel; Nitric oxide synthase Parkinson's disease (Smith, T.S. (765) 183)

Oxidative stress; Glutathione; Cell death; Cystine; Glutamate; Mouse trisomy 16; Down syndrome (Stabel-Burow, J. (765) 313)

Amyloid β protein precursor; Amyloid β protein; Cathepsin D; Lysosome; Pancreas; Transgenic mouse (Kawarabayashi, T. (765) 343)

Paired helical filament; Neurofibrillary tangle; Microtubule-associated proteins; MAP-2; MARK; Cytoskeleton (Jenkins, S.M. (767) 305)

Apolipoprotein E; Amyloid β protein; Amyloid deposition; N-terminus antibody; C-terminus antibody (Aizawa, Y. (768) 208)

β-Amyloid; Microglia; Integrin; Nitric oxide; Tissue culture; Flow cytometry (Goodwin, J.L. (768) 279)

Neurofibrillary degeneration; Amyloid; Tangle; Aging (Cebrián, J.L. (769) 173)

Protein kinase C; Signal transduction (Luo, Y. (769) 287)

Calcium; Free radical; Ion current; Oxidative stress; Vascular amyloid (Mattson, M.P. (771) 147)

Huntington's disease; *N*-Acetylaspartylglutamate; Glutamate; Peptide; Microglia; Striatum; Cerebral cortex (Passani, L.A. (772) 9)

Ultrastructure; Paired helical filament; Corticobasal degeneration; Vanadate; Transmission electron microscopy (Tracz, E. (773) 33)

Diffuse plaque; Plaque type; Isoaspartate β-amyloid; Aging; Animal model; Beagle dog lifespan (Satou, T. (774) 35)

Neuronal DNA damage; Oxidative injury; Neurofibrillary tangle; Nitrotyrosine; Neuropathology (Su, J.H. (774) 193)

S-100β; MAP-2; Neuronal cytoskeleton; Down's syndrome; Hippocampus; Dendrite; Neurofibrillary tangle (Whitaker-Azmitia, P.M. (776) 51)

Human astrocytes; Interleukin-1β; Interleukin-6; Prostaglandin E_2 (Blom, M.A.A. (777) 210)

α_2M-R/LRP; α_2-Macroglobulin; Aβ; Senile plaque; Membrane alteration; Interleukin 6 (Thal, D.R. (777) 223)

Kynurenine; Tryptophan; NGF; Astrocyte (Dong-Ryul, L. (777) 228)

Aging; Cholinesterase inhibitor; Corticosterone (Dachir, S. (777) 251)

Amacrine cell
γ-Aminobutyric acid (GABA); $GABA_A$ receptor; OFF pathway; Bipolar cell; Retina; Neurotransmitter; Carp (Zhang, D.-Q. (759) 160)

Amantadine
Inhibition; Phosphodiesterase; Calmodulin; Parkinson's disease (Kakkar, R. (749) 290)

Amiloride
Sodium; Hippocampus; CA1; Anoxia; Tetrodotoxin (Fung, M.-L. (762) 97)

Amiloride analog
Adaptation; Temperature; Chorda tympani nerve; Transduction (Lundy, Jr., R.F. (744) 309)

Aminergic neurotransmitter
Cerebral ischemia; Lisuride; Dopamine D_2 agonist; Learning; Memory (Caldwell, M.A. (771) 305)

Amino acid
α-Trinositol; Antinociception; Spinal microdialysis; Prostaglandin E_2; Formalin test (Malmberg, A.B. (747) 160)

Olfaction; Bile salt; Zebrafish; Receptor site (Michel, W.C. (764) 179)

Taste; Electrophysiology; Mixture; Quinine; Catfish; Facial nerve (Ogawa, K. (769) 263)

Arachidonic acid; Hippocampus; Synaptosome; Uptake carrier; Exocytosis; Protein kinase C (Breukel, A.I.M. (773) 90)

Amino acid, excitatory
Transporter; Neurodegeneration; Schizophrenia; Immunocytochemistry (Shashidharan, P. (773) 139)

D-Amino acid oxidase
D-Serine; NMDA-glycine site; Nucleus of the solitary tract; Ventrolateral medulla; Intramediolateral cell column; Blood pressure regulation (Kapoor, R. (771) 351)

Amino acid release
Ischemia; Glutamate receptor; Energy level; Retina cell damage (Ferreira, I.L. (768) 157)

γ-Aminobutyric acid
Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Dopamine; Norepinephrine; Serotonin (Dunn-Meynell, A.A. (745) 1)

Glucose; Muscimol; Medial septum; Inhibitory avoidance; Memory (Parent, M.B. (745) 317)

Intracellular calcium; GT1-1 cell; Gonadotropin-releasing hormone (Sun, W. (747) 70)

Cryopreservation; Culture; Cerebral cortex; Mesencephalon; Computerized morphometry; Principal component analysis (Petite, D. (747) 279)

Luteinizing hormone; Puberty; Bicuculline; Muscimol; Male rat (Mitsushima, D. (748) 258)

Substantia nigra; Taurine; Glycine; Chloride channel; Bicuculline; Strychnine (Ye, G.-l. (749) 175)

μ-Opioid receptor; Dopamine release; AF64-A; Methoctramine; Rat striatum; Microdialysis (Dourmap, N. (749) 295)

Antiopioid; Electrophysiology; Opioid; Interneuron; Morphine-modulating peptide (Miller, K.K. (750) 81)

Calcium-binding protein; Neuropeptide; Immunohistochemistry; Hippocampus; Rat (Nomura, T. (751) 64)

Superior cervical ganglion; GABA receptors; Picrotoxin; Inhibition; Synaptic plasticity; Long-term potentiation (González Burgos, G.R. (751) 148)

Mesencephalic trigeminal neuron; $GABA_A$ receptor; In situ hybridization; Sensory neuron; GABA uptake (Hayar, A. (753) 120)

Glutamate; Glycine; Somatosensation; Ventrobasal thalamus; Interneuron (Popratiloff, A. (754) 333)

Suprachiasmatic nucleus; Arg-vasopressin; Slice culture (Isobe, Y. (755) 213)

Adeno-associated virus; Gene therapy; Inferior colliculus; Seizure; Antisense (Xiao, X. (756) 76)

Rat; Mediobasal hypothalamus; Neuropeptide Y; Double-label immunocytochemistry; Reproduction; Ingestive behavior (Horvath, T.L. (756) 283)

Traumatic brain injury; Paired-pulse inhibition; Hippocampus; Dentate gyrus; Rat (Reeves, T.M. (757) 119)

Cerebral cortex; Inhibitory interneuron; Vasoactive intestinal polypeptide; Acetylcholine; Mirror technique (Bayraktar, T. (757) 209)

Amphetamine; Dopamine; Glutamate; Calcium-channel blockers; Protein-synthesis inhibitor; Cortex; Behavioral sensitization (Karler, R. (757) 228)

Muscarinic; Acetylcholine; Glutamate; Inhibitory postsynaptic potentials (IPSPs); Neocortex; Disinhibition (Aramakis, V.B. (758) 107)

Alveus; *Str. radiatum*; Epilepsy; Muscarinic receptor; Inhibition; Status epilepticus (Sayin, Ü. (758) 136)

Closed head injury; Hypoxia; Vulnerability; Hippocampus; Glutamate; Microdialysis (Katoh, H. (758) 153)

$GABA_A$ receptor; OFF pathway; Amacrine cell; Bipolar cell; Retina; Neurotransmitter; Carp (Zhang, D.-Q. (759) 160)

Dopamine; 5-Hydroxyindoleacetic acid (5-HIAA); Ketamine; Microdialysis; Prefrontal cortex (Lindefors, N. (759) 205)

Mouse; Electron microscopy; Immunocytochemistry; Glutamate; Hippocampus; Convulsion (Buckman, J.F. (760) 193)

Plasmin; Excitatory postsynaptic current; Inhibitory postsynaptic current; CA1 pyramidal cell; Whole-cell recording; Hippocampal slice; Rat (Mizutani, A. (761) 93)

N-Methyl-D-aspartate (NMDA) receptor; Serotonin; Serotonin 5-HT_{1A} receptor; Dentate gyrus; Release; Guinea pig; High performance liquid chromatography (Matsuyama, S. (761) 105)

Parkinson's disease; Dopamine; Basal ganglia (Rohlfs, A. (761) 352)

Double labeling; Calbindin; Parvalbumin; Tyrosine hydroxylase; Colocalization (Völgyi, B. (763) 79)

Bed nuclei of the stria terminalis; Conditioned emotional response; Corticotropin-releasing hormone; Long-term modulation; Neuropeptide; Parabrachial nucleus (Petrovich, G.D. (763) 247)

Animal model; Blood pressure; Glutamate; Heart rate; *N*-Methyl-D-aspartate (NMDA); Non-NMDA; Panic; Stress (Sajdyk, T.J. (764) 262)

Anesthetic; Decay kinetics; Halothane; Half-width; Hippocampus; Inhibitory postsynaptic current (IPSC); Prolongation (Lukatch, H.S. (765) 108)

Inhibitory neurotransmitter; Brachium; Inferior colliculus; Medial geniculate; Quantitative morphometry; Cat (Saint Marie, R.L. (765) 173)

Superior salivatory nucleus; Pterygopalatine ganglion; Glutamate; Glycine receptor; Immunohistochemistry; Cholera toxin B subunit; Wheat germ agglutinin conjugated horseradish peroxidase (Kobayashi, M. (766) 72)

Glutamic acid decarboxylase; Neuron; Alternative splicing; Reverse transcriptase–polymerase chain reaction (Yoshioka, A. (767) 333)

Neuropeptide Y; $GABA_A$; Tetrodotoxin; Suprachiasmatic nucleus; Circadian rhythm (Huhman, K.L. (772) 176)

Lymnaea stagnalis; Osphradium; Sensory neuron; FMRFamide; Serotonin; Electrophysiology; Transmitter interaction (Nezlin, L. (772) 217)

Pregnenolone sulfate; Neurosteroid; Cultured hippocampal neurons; Whole-cell patch clamp recording; Spontaneous release; Presynaptic action (Teschemacher, A. (772) 226)

Neurotensin; Periaqueductal gray matter; Opioid; Microdialysis; Rat (Stiller, C.-O. (774) 149)

BCECF; Central chemoreceptor; Control of breathing; Dissociated cell culture; Glutamate; Respiration (Sugama, S. (777) 95)

N-Methyl-D-aspartate; Inhibition; Paired-pulse depression; Short-term plasticity; Superior colliculus; Transmitter release (Platt, B. (777) 131)

γ-Aminobutyric acid receptor / channel
Cocaine; Local anesthetic toxicity; Seizure; Whole cell $GABA_A$ current; Patch clamp; Hippocampal neuron (Ye, J.H. (770) 169)

(1*S*,3*R*)-1-Aminocyclopentane-1,3-dicarboxylic acid
Hippocampus; Rat; Metabotropic glutamate receptor; Medial perforant path; Lateral perforant path; L(+)-2-Amino-4-phosphonobutyric acid; 'Paired-pulse' plasticity (Dietrich, D. (767) 220)

Aminoglutethimide
Learning; Memory; Glucocorticoid; Corticosterone; Metyrapone; Passive avoidance; Chick (Loscertales, M. (769) 357)

Aminoglycoside
Hair cell; Endocytosis; Lysosome; Trafficking; Toxicity; Chicken (Hashino, E. (777) 75)

Aminoguanidine
Cerebral ischaemia; LY231617; 3-Bromo-7-nitroindazole; Nitric oxide (NO); Hippocampus; Mongolian gerbil (O' Neill, M.J. (760) 170)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid
Synaptic transmission; Long-term potentiation; Melatonin; *N*-Methyl-D-aspartate; CA1; Hippocampus (Collins, D.R. (767) 162)

1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor
Excitatory amino acid; Glutamate; DL-Threo-β-hydroxyaspartate; Glutamate transporter; Spinal cord; Amyotrophic lateral sclerosis; Neurotoxicity (Hirata, A. (771) 37)

Aminopeptidase A
Angiotensin II; Angiotensin III; Dipsogenesis; Blood pressure; Aminopeptidase N; Anticatalytic (Song, L. (744) 1)

Aminopeptidase N
Aminopeptidase A; Angiotensin II; Angiotensin III; Dipsogenesis; Blood pressure; Anticatalytic (Song, L. (744) 1)

Aminopeptidase N (EC 3.4.11.2)
Neutral endopeptidase 24.11 (EC 3.4.24.11); Prohormone convertase; Haloperidol; Apomorphine (Waters, S.M. (754) 28)

L(+)-2-Amino-4-phosphonobutyric acid
Hippocampus; Rat; Metabotropic glutamate receptor; Medial perforant path; Lateral perforant path; (1*S*,3*R*)-1-Aminocyclopentane-1,3-dicarboxylic acid; 'Paired-pulse' plasticity (Dietrich, D. (767) 220)

2-Amino-5-phosphonopentanoic acid
Norepinephrine; Locus coeruleus; Prefrontal cortex; Excitatory amino acid; 6-Cyano-7-nitroquinoxaline-2,3-dione (Jodo, E. (768) 327)

DL-2-Amino-5-phosphonovaleric acid (APV)
N-Methyl-D-aspartate (NMDA); Non-NMDA; Corticotropin-releasing factor; REM behavior disorder; Periodic leg movement; Nucleus magnocellularis (Lai, Y.Y. (745) 265)

4-Aminopyridine
Invertebrate photoreceptor; cGMP-activated K channel blocker; *l-cis*-Diltiazem (Gotow, T. (745) 303)

Aminotriazole
Astrocyte; Catalase; Glutathione; Glutathione reductase; H_2O_2; Mercaptosuccinate; Pentose phosphate pathway (Dringen, R. (759) 67)

Amisulpride
Regional cerebral glucose use; D_2/D_3 dopamine receptor; Limbic system (Cudennec, A. (768) 257)

Ammonia
Carbon dioxide; Alkalosis; Acidosis; pH_i; *Xenopus* (Yoshii, K. (757) 202)

Ammon's horn
Meriones unguiculatus; Genetic epilepsy; Limbic seizure; Calcium-binding proteins; Disinhibition (Scotti, A.L. (760) 109)

Amnesia
Amygdala; Benzodiazepine; Midazolam; Aversive learning; Post-training; Memory; Inhibitory avoidance (Dickinson-Anson, H. (752) 197)

cAMP
Vasoactive intestinal polypeptide; Cultured hippocampal neuron; GABAergic inhibitory postsynaptic current; Forskolin; Whole-cell patch-clamp recording (Wang, H.-L. (746) 294)

Motor impairment; Ethanol; Adenosine; Intracerebellar; Mouse (Dar, M.S. (749) 263)

Cognition enhancer; G-protein; Pertussis toxin; Cholera toxin; Metabotropic glutamate receptor (Oka, M. (754) 121)

Thrombin receptor; Rat hippocampal neuron; Thrombin receptor agonist peptide (TRAP); Calcium (Yang, Y. (761) 11)

Microculture; Autapse; Glutamatergic transmission; Synaptogenesis; Serum-free culture; Protein kinase A (Leßmann, V. (763) 111)

Cannabinoid; Glucose metabolism; C6 glioma cell (Sánchez, C. (767) 64)

AMPA
Circadian system; Suprachiasmatic nucleus; Entrainment; *N*-Methyl-D-aspartate; Neuropeptide Y; Strychnine (Schmahl, C. (746) 151)

Cochlea; Deafness; Dendritic swelling; Neurite regeneration; Plasticity; Protein kinase C (Lerner-Natoli, M. (749) 109)

N-Methyl-D-aspartate receptor; Calcium-binding protein; Immunocytochemistry; Primate (Huntley, G.W. (749) 245)

Long-term potentiation; LTP; NCAM; Synaptic adhesion; NMDA; Sialic acid; Binding (Hoffman, K.B. (753) 309)

NMDA; AP-1; Transcription factor; Cerebellar granule cell; Rat (Hou, Y.-N. (754) 79)

Ionotropic; Spinal cord injury; Quisqualate; NMDA (Liu, S. (756) 160)

Medial preoptic nucleus; Whole-cell patch-clamp; Ion current; Glutamate; NMDA (Karlsson, U. (759) 270)

Oxytocin neuron; Vasopressin neuron; Glutamate receptor; NMDA; Supraoptic nucleus (Richardson, C.M. (767) 158)

Receptor; Perforant pathway lesion; Immunocytochemistry; Up-regulation; Hippocampus (Mizukami, K. (768) 354)

Immunocytochemistry; *N*-Methyl-D-aspartate; Kainate (Kohama, S.G. (769) 44)

Subiculum; Intracellular recording; Bursting cell; Regular firing cell; $GABA_A$; $GABA_B$; NMDA; 5-HT (Behr, J. (773) 217)

AMPA antagonist
DBA mouse; C57 mouse; Oxiracetam; Aniracetam; NMDA antagonist; Contextual fear conditioning (Lu, Y. (768) 197)

AMPA receptor
Zinc; GluR1; GluR2; GluR3; *Xenopus* oocyte (Dreixler, J.C. (752) 170)

Hippocampus; Theta rhythm; Unilateral lesion; Serotonin; Noradrenaline; Acetylcholine (Van Praag, H. (768) 233)

Morphine dependence; Excitatory amino acid; LY293558; Withdrawal jumping; Morphine tolerance (McLemore, G.L. (778) 120)

Bergmann glial cell; Purkinje neuron; Portocaval anastomosis (Suárez, I. (778) 346)

AMPA receptor antagonist
YM90K; Focal cerebral ischaemia (Umemura, K. (773) 61)

AMPA-type glutamate receptor
Striatal GABAergic interneuron; Basal ganglia; Double immunocytochemistry; Immunofluorescence; Light microscopy (Kwok, K.H.H. (778) 43)

cAMP-dependent protein kinase
[^{3}H]cAMP binding; Post-mortem brain tissue; Suicide; Depression; Antidepressant drugs; Cerebral cortex; Hippocampus; Amygdala (Lowther, S. (758) 223)

Amphetamine
Motor behavior; Psychomotor stimulant; Single unit recording; Striatum; Rat (West, M.O. (745) 331)

Monosialoganglioside; Behavior; Sensitization; Locomotor activity; Mice (Bellot, R.G. (747) 169)

Pertussis toxin; Ventral tegmental area; Nucleus accumbens; Locomotor activity; Apomorphine; Sensitization (Narayanan, S. (748) 263)

c-Fos; Fos related antigen; Sensitization; CREB; Psychostimulant (Turgeon, S.M. (749) 120)

Dopamine; Glutamate; γ-Aminobutyric acid; Calcium-channel blockers; Protein-synthesis inhibitor; Cortex; Behavioral sensitization (Karler, R. (757) 228)

Extracellular dopamine level; Striatum; Accumbens; D_3 receptor; Locomotor activity; PD128907; R-(+)-7-OH-DPAT; PD151328; Haloperidol (De Boer, P. (758) 83)

Glutamate; Quinpirole; SKF-82958; Nucleus accumbens; Microdialysis (Kalivas, P.W. (761) 173)

Serotonin; Neurotoxicity; Anorexia; Discriminative stimulus effect; Fenfluramine (Fasciano, J. (763) 182)

Fenfluramine; Neurotoxicity; Temperature; Thermoregulation; 5-HT; 5-HIAA (Malberg, J.E. (765) 101)

Methamphetamine; Neurotoxicity; PET; Dopamine; Primate (Melega, W.P. (766) 113)

Fos; Sensitization; Lateral habenula (Hamamura, T. (767) 140)

Dopamine; Neurotoxicity; ADHD; Narcolepsy (Yuan, J. (767) 172)

Dopamine; Glutamate; Iontophoresis; Neostriatum; Nucleus accumbens (Kiyatkin, E.A. (771) 14)

Dopamine; Serotonin; Neurotoxicity (Fasciano, J. (771) 115)

5,7-Dihydroxytryptamine; Locomotion; Serotonin; Serotonin syndrome (Vanderwolf, C.H. (772) 121)

Cerebral glucose utilization; Cortical contusion; Traumatic brain injury; Remote functional depression (Queen, S.A. (777) 42)

D-Amphetamine
3,4-Methylenedioxymethamphetamine (MDMA); Cocaine; Methysergide; Self-stimulation; Performance; Reinforcement; 5-HT (Lin, H.Q. (744) 351)

Self-mutilating behavior; *R*(+)-SCH-23390; (±)-Sulpiride; Haloperidol; Dopamine; Rat (Lara-Lemus, A. (770) 60)

Dopaminergic neurons; Nucleus accumbens; Entorhinal cortex; Unilateral 6-OHDA lesion; Hemispheric asymmetry; Locomotor activity (Louilot, A. (778) 150)

Amphibian embryo
Neurosteroid; Spinal cord; GABA transmission (Reith, C.A. (770) 202)

Amphibian
Pipa; Olfactory system; Accessory olfactory system; NADPH-diaphorase; Lectin; Soybean agglutinin (Meyer, D.L. (762) 275)

Blood–nerve barrier; Perineurium; Potassium permeability; Electrophysiology (Abbott, N.J. (776) 204)

Blood–nerve barrier; Perineurium; Inflammation; Inflammatory mediator; Bile salt; Protamine; Frog (Todd, B.A. (776) 214)

AMPPNP
ATP-sensitive K^+ channel; Ventromedial hypothalamic nucleus; Phosphorylation; Glibenclamide; Metabolism; Glucose (Routh, V.H. (778) 107)

Amygdala
Corticotropin-releasing factor; Ethanol; Paraventricular nucleus; Hypothalamic-pituitary-adrenal axis; Supraoptic nucleus (Ogilvie, K.M. (744) 83)

Inhibitory avoidance task; Excitatory synapse; Calcium/calmodulin-dependent protein kinase II; KN-6 (Tan, S.-E. (748) 227)

Kindling; Seizure; 2-Chloroadenosine; Caffeine; Hippocampus (Pourgholami, M.H. (751) 259)

Benzodiazepine; Midazolam; Aversive learning; Post-training; Memory; Amnesia; Inhibitory avoidance (Dickinson-Anson, H. (752) 197)

Basal forebrain; Local cerebral glucose utilization; Ventral striatum (Lyons, D. (753) 69)

Electrical stimulus; Ventral noradrenergic bundle; Hypothalamo-pituitary-adrenal axis; Negative feedback (Weidenfeld, J. (754) 187)

cAMP-dependent protein kinase; [^{3}H]cAMP binding; Post-mortem brain tissue; Suicide; Depression; Antidepressant drugs; Cerebral cortex; Hippocampus (Lowther, S. (758) 223)

Kindling; Serotonin; 5-HT_3 receptor; 1-(*m*-Chlorophenyl)-biguanide; Epilepsy; Seizure; Rat (Wada, Y. (759) 313)

Anxiety; Alcoholism; Stress; Emotionality (Möller, C. (760) 94)

Monogamy; Aggression; Lateral septum (Wang, Z. (767) 321)

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Vasopressin; Central amygdaloid nucleus; Neuron activity; Brain slice (Lu, Y.-F. (768) 266)

NGFI-B; c-*fos*; Rat; Lactation; Stress; Paraventricular nucleus; Lateral septum (Da Costa, A.P.C. (770) 151)

Epilepsy; Transfer; Kindling; Atropine; Muscarinic; Acetylcholine; Perirhinal cortex (Buchanan, J.-A.M. (771) 63)

Epilepsy; Transfer; Kindling; Perirhinal cortex; Frontal cortex (Buchanan, J.-A.M. (771) 71)

p-Chlorophenylalanine; 5-Hydroxytryptamine; Bed nucleus; Caudate–putamen; Thalamus; Parabrachial nucleus; Nucleus of the solitary tract (Javed, A. (774) 94)

Kindling; Seizure; 2-Chloroadenosine; Caffeine; Adenosine A_1 receptor (Pourgholami, M.H. (775) 37)

Immediate-early gene; Norepinephrine; *fos*; *zif/268*; α_1-Adrenoceptor; β_1-Adrenoceptor (Stone, E.A. (778) 1)

Amyloid
Transplantation; Leptomeningeal; Fibroblast; Uptake; Amyloid precursor protein; Human specific (DeGiorgio, L.A. (752) 35)

Neurofibrillary degeneration; Tangle; Alzheimer's disease; Aging (Cebrián, J.L. (769) 173)

β-Amyloid
Macaca mulatta; Prefrontal cortex; Senile plaque; Apolipoprotein E; Glia; Immunofluorescence; Carbocyanine double labelling (Härtig, W. (751) 315)

Clathrin coated vesicle; Apolipoprotein E isoform; βA4 conjugate; βA4 oligomers/aggregates; Dimyristoyl phosphatidylcholine liposome; *Tau* (Berg, M.J. (752) 72)

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Alzheimer's disease; Cytotoxicity; Endothelial cell; Superoxide radical; Intracellular calcium (Suo, Z. (762) 144)

Oxidative stress; Lazaroid; Cortical cell (Lucca, E. (764) 293)

Alzheimer's disease; Microglia; Integrin; Nitric oxide; Tissue culture; Flow cytometry (Goodwin, J.L. (768) 279)

Estradiol; Lipid peroxidation; Glucose utilization; Lactate production; SK-N-SH neuroblastoma cell (Gridley, K.E. (778) 158)

Amyloid angiopathy
Alzheimer's disease; Amyloid β-protein; Amyloid β-protein precursor; Choroid plexus; Immunohistochemistry; Systemic amyloidosis (Sasaki, A. (755) 193)

Amyloid-associated proteins
Alzheimer disease; Amyloid β protein; Amyloid precursor protein; Chloroquine retinopathy; Retinal ganglion cell (Yoshida, T. (764) 283)

Amyloid-β accumulation
Amyloid-β precursor protein processing; Monokines; Smooth muscle cell (Mazur-Kolecka, B. (760) 255)

Amyloid beta (A β)
Alzheimer's disease; Cytotoxicity; Phosphorylation (Tan, S. (765) 159)

Amyloid beta peptide
Alzheimer's disease; Amyloid precursor protein; PC12 cell; Endosome; Lysosome; Neurodegeneration (Burdick, D. (746) 275)

Amyloid-β precursor protein processing
Amyloid-β accumulation; Monokines; Smooth muscle cell (Mazur-Kolecka, B. (760) 255)

Amyloid β protein
Alzheimer's disease; Ca^{2+} uptake; Chlorpromazine; Cortical neuron; Neurotoxicity; PC12 cell; Phenothiazine (Ueda, K. (748) 184)

Apolipoprotein E; Senile plaque; Laser scan microscopy; Alzheimer's disease (Nishiyama, E. (750) 20)

Alzheimer's disease; Amyloid β-protein precursor; Amyloid angiopathy; Choroid plexus; Immunohistochemistry; Systemic amyloidosis (Sasaki, A. (755) 193)

Alzheimer's disease; Human amylin; Astrocytes; Reactive gliosis; Cellular redox activity (Abe, K. (762) 285)

Alzheimer's disease; Cerebral amyloid angiopathy; Squirrel monkey; Immunocytochemistry; Enzyme-linked immunosorbent assay (Sawamura, N. (764) 225)

Alzheimer disease; Amyloid precursor protein; Amyloid-associated proteins; Chloroquine retinopathy; Retinal ganglion cell (Yoshida, T. (764) 283)

Alzheimer's disease; Amyloid β protein precursor; Cathepsin D; Lysosome; Pancreas; Transgenic mouse (Kawarabayashi, T. (765) 343)

Alzheimer's disease; Apolipoprotein E; Amyloid deposition; N-terminus antibody; C-terminus antibody (Aizawa, Y. (768) 208)

Amyloid β-protein precursor
Alzheimer's disease; Amyloid β-protein; Amyloid angiopathy; Choroid plexus; Immunohistochemistry; Systemic amyloidosis (Sasaki, A. (755) 193)

Alzheimer's disease; Amyloid β protein; Cathepsin D; Lysosome; Pancreas; Transgenic mouse (Kawarabayashi, T. (765) 343)

Amyloid deposition
Alzheimer's disease; Apolipoprotein E; Amyloid β protein; N-terminus antibody; C-terminus antibody (Aizawa, Y. (768) 208)

β-Amyloid fibril
β-Amyloid peptide; Calcium ion channel; Calcium homeostasis; Calcium ion concentration; Decoy peptide; hNT neuron; Non-NMDA channel (Blanchard, B.J. (776) 40)

Amyloid mRNA
Glucose deprivation; Kunitz-type protease inhibitor domain; RT-PCR (Shi, J. (772) 247)

Amyloid P component
Acute-phase; Inflammation; Pentraxin; PHF-1 (Duong, T. (749) 152)

β-Amyloid peptide
hNT cell; Ionophore; Calcium current; Patch clamp; Differentiated NT2 cell; Alzheimer's disease (Sanderson, K.L. (744) 7)

β-Amyloid fibril; Calcium ion channel; Calcium homeostasis; Calcium ion concentration; Decoy peptide; hNT neuron; Non-NMDA channel (Blanchard, B.J. (776) 40)

Amyloid precursor protein
Alzheimer's disease; Amyloid beta peptide; PC12 cell; Endosome; Lysosome; Neurodegeneration (Burdick, D. (746) 275)

Transplantation; Leptomeningeal; Fibroblast; Amyloid; Uptake; Human specific (DeGiorgio, L.A. (752) 35)

Focal cerebral ischaemia; Rat; Axon (Yam, P.S. (760) 150)

Alzheimer disease; Amyloid β protein; Amyloid-associated proteins; Chloroquine retinopathy; Retinal ganglion cell (Yoshida, T. (764) 283)

Swimming navigation; Gene targeting; Mouse; Genetic strain (Wolfer, D.P. (771) 1)

Neurofibrillary degeneration; Aluminum; Aβ; α_1-Antichymotrypsin; Ubiquitin; Rabbit (Huang, Y. (771) 213)

Amyotrophic lateral sclerosis
Cell culture; RNA; Alzheimer's disease; Parkinsonism-dementia; Guam; Axonal transport; Neurotoxin (Wakayama, I. (748) 237)

Motor cortex; Neurotrophic factor; Immunocytochemistry (Duberley, R.M. (763) 259)

Excitatory amino acid; Glutamate; DL-Threo-β-hydroxyaspartate; Glutamate transporter; 1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor; Spinal cord; Neurotoxicity (Hirata, A. (771) 37)

Analgesia
Buprenorphine; Naloxone benzoylhydrazone; Opiate receptor (mixed agonist/antagonist) (Pick, C.G. (744) 41)

[D-Pen^2,D-Pen^5]enkephalin; [D-Ala^2,Glu^4]deltorphin II; δ_1-, δ_2-Opioid receptor agonist; Tolerance; Brain receptor (Zhao, G.-M. (745) 243)

κ-Opioid receptor agonist; U-50,488H; Hypothermia; Tolerance; NMDA receptor antagonist; LY235959; Competitive antagonism (Bhargava, H.N. (747) 246)

Antinociception; Histamine; Opioid; H_1 receptor; H_2 receptor; H_3 receptor; SKF92374; Cimetidine (Li, B.Y. (748) 168)

Prostaglandin E_2; Wide dynamic range neuron; Hyperalgesia; Pain; Central nervous system; Brain (Oka, T. (749) 354)

c-Fos; Immediate-early-gene; Nitrous oxide; Halothane; Spinal cord; Rat (Hagihira, S. (751) 124)

Capsaicin; C-fiber; Galanin; Galanin message associated peptide; Pain; Resiniferatoxin (Xu, X.-J. (752) 52)

Antisense mapping; DOR-1; δ Receptor; δ_1; δ_2 (Rossi, G.C. (753) 176)

Antinociception; Anterior pretectal nucleus; Opioid agonist; Serotonergic agonist; Tail-flick (Mamede Rosa, M.L.N. (757) 133)

Ventral tegmental area; Neuropeptide FF; Formalin test; Dopamine; Footshock stress; Opioids (Altier, N. (758) 250)

NSAID; Dipyrone; PAG; Dorsal horn; Sensory neuron; Descending inhibition (Vanegas, H. (759) 171)

Hypotension; Hypertension; Bradycardia; Emotion; Opiate; Visceral pain (Keay, K.A. (762) 61)

Subnucleus reticularis dorsalis; Inflammation; Naloxone (Tsuruoka, M. (762) 264)

Parasite; Behavior; Predator induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induced analgesia; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Sex difference; Predator-induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induction; κ opiate (Kavaliers, M. (768) 30)

Prostaglandin E_2; Hyperalgesia; 17-Phenyl-ω-trinor prostaglandin E_2; MB28767; Pain; Central nervous system (Oka, T. (771) 278)

Pain; Metabotropic glutamate receptors; Spinal cord; Nociception (Young, M.R. (777) 161)

Ultrastructure; Anatomy; Neurotransmitter; Dorsal horn (Cheng, P.Y. (778) 367)

Anandamide
Leech; Central nervous system; Cannabinoid; Nitric oxide (Stefano, G.B. (753) 219)

Morphine; Invertebrate ganglia; Dopamine; Serotonin; Presynaptic release (Stefano, G.B. (763) 63)

Anatomy
Ultrastructure; Analgesia; Neurotransmitter; Dorsal horn (Cheng, P.Y. (778) 367)

Androgen
Stress; Estrogen; Proenkephalin; Hybridization, in situ; Corticotropin releasing factor; C-*fos*; Paraventricular nucleus; Hypertonic saline; Novelty heteronuclear RNA (Yukhananov, R.Y. (764) 109)

Testosterone; Steroid; Corpus callosum; Commissure; Interhemispheric; Human (Moffat, S.D. (767) 297)

Androstenedione
Tubulin; Differentiation; Mouse; Cell line; Cytoskeleton (Thuerl, C. (762) 47)

Anesthesia
Excitotoxin; Cholinergic; Mesopontine; Locus coeruleus (Inglis, W.L. (755) 17)

Anesthetic
Isoflurane; Halothane; Anoxia-aglycemia; Anoxia; Hippocampal slice (Raley-Susman, K.M. (755) 1)

Decay kinetics; γ-Aminobutyric acid (GABA); Halothane; Half-width; Hippocampus; Inhibitory postsynaptic current (IPSC); Prolongation (Lukatch, H.S. (765) 108)

Nitric oxide; Nitric oxide synthase; Inhalational; Halothane; Rat brain (Tagliente, T.M. (767) 393)

Dexmedetomidine; α_2-adrenergic agonist; Halothane; Electroencephalography; Electromyography (Farber, N.E. (774) 131)

α7 neuronal receptor
Cerebral cortex; Glutamate; Neuronal CNS receptor; Neuroprotection; Nicotine; *N*-Methyl-D-aspartate; Primary culture (Kaneko, S. (765) 135)

Angiotensin
Fos; Drinking; Subfornical organ; Organum vasculosum of the lamina terminalis; AT_1 antagonist; Converting enzyme inhibitors (McKinley, M.J. (747) 43)

Arterial pressure; Sympathetic nervous system; Ventrolateral medullum; Losartan; Rabbit (Hirooka, Y. (772) 107)

Angiotensin-(1–7)
Ventrolateral medulla; Angiotensin II; Angiotensin antagonist; Losartan (Fontes, M.A.P. (750) 305)

Angiotensin antagonist
Ventrolateral medulla; Angiotensin II; Angiotensin-(1–7); Losartan (Fontes, M.A.P. (750) 305)

Angiotensinase
Tonin; Kallikrein; Angiotensin II; Rat brain (Lopes, E.S. (769) 152)

Angiotensin I-converting enzyme
Brain renin–angiotensin system; Pineal; Angiotensin II receptor; Immunocytochemistry (Baltatu, O. (752) 269)

Angiotensin II
Aminopeptidase A; Angiotensin III; Dipsogenesis; Blood pressure; Aminopeptidase N; Anticatalytic (Song, L. (744) 1)

Dopamine; Haloperidol; Mouse; Receptor; Nucleus accumbens; Striatum (Jenkins, T.A. (748) 137)

Anteroventral third ventricle; Excitotoxic lesion; Ouabain; Cerebrospinal fluid sodium (Veerasingham, S.J. (749) 157)

Ventrolateral medulla; Angiotensin-(1–7); Angiotensin antagonist; Losartan (Fontes, M.A.P. (750) 305)

Tonin; Kallikrein; Angiotensinase; Rat brain (Lopes, E.S. (769) 152)

Neuropeptide; Dorsal vagal motor nucleus; Heart rate; Blood pressure; Angiotensin II AT_1 receptor; Trout (Pamantung, T.F. (772) 167)

c-fos; Calcium channel; Drinking behavior; Forebrain; Nifedipine (Zhu, B. (778) 206)

Angiotensin II AT_1 receptor
Angiotensin II; Neuropeptide; Dorsal vagal motor nucleus; Heart rate; Blood pressure; Trout (Pamantung, T.F. (772) 167)

Angiotensin III
Aminopeptidase A; Angiotensin II; Dipsogenesis; Blood pressure; Aminopeptidase N; Anticatalytic (Song, L. (744) 1)

Angiotensin II receptor
Brain renin–angiotensin system; Pineal; Angiotensin I-converting enzyme; Immunocytochemistry (Baltatu, O. (752) 269)

Angiotensin receptor
Immunocytochemistry; Paraventricular nucleus; Supraoptic nucleus; Confocal microscopy; Cytoplasmic staining; Rat (Pfister, J. (754) 307)

Animal model
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Blood pressure; γ-Aminobutyric acid (GABA); Glutamate; Heart rate; *N*-Methyl-D-aspartate (NMDA); Non-NMDA; Panic; Stress (Sajdyk, T.J. (764) 262)

Dystonia; Neuroleptic; NMDA receptor; Catalepsy (Richter, A. (769) 296)

Diffuse plaque; Plaque type; Isoaspartate β-amyloid; Aging; Alzheimer's; Beagle dog lifespan (Satou, T. (774) 35)

Anion transport
Cerebral cortex; Ischemia/reperfusion; Volume regulation; Chloride channel; Dipyridamole; SITS; NPPB (Phillis, J.W. (758) 9)

Aniracetam
DBA mouse; C57 mouse; Oxiracetam; AMPA antagonist; NMDA antagonist; Contextual fear conditioning (Lu, Y. (768) 197)

Anisotropy
Free radical; Glutathione; Mouse; Astrocyte; Lipid peroxidation; Starvation; Primary culture (Papadopoulos, M.C. (748) 151)

Annexin
Lipocortin; Astrocytoma cell; Induction; Secretion; Glucocorticoid (Mizuno, H. (746) 265)

Anolis
Alcohol; Asymmetry; *Anolis carolinensis*; Lateralization; Aggression (Deckel, A.W. (756) 96)

Anolis carolinensis
Alcohol; Asymmetry; *Anolis*; Lateralization; Aggression (Deckel, A.W. (756) 96)

Serotonin; 5-HT; 5-HIAA; Dopamine; DA; Dominant; Subordinate; Lizard; Reptile (Summers, T.R. (767) 272)

Anorexia
Brain; Cachexia; Cytokine; Food intake; Interleukin-1β (Finck, B.N. (761) 333)

Serotonin; Neurotoxicity; Discriminative stimulus effect; Fenfluramine; Amphetamine (Fasciano, J. (763) 182)

Anoxia
Ischemia; Oxidative damage; Evoked potential; Hippocampus (Pérez-Pinzón, M.A. (754) 163)

Anesthetic; Isoflurane; Halothane; Anoxia-aglycemia; Hippocampal slice (Raley-Susman, K.M. (755) 1)

Sodium; Hippocampus; CA1; Tetrodotoxin; Amiloride (Fung, M.-L. (762) 97)

Anoxia-aglycemia
Anesthetic; Isoflurane; Halothane; Anoxia; Hippocampal slice (Raley-Susman, K.M. (755) 1)

Antagonist
Agonist; Cholinergic; Medial preoptico-anterior hypothalamic area; Sleep; Thermoregulation; Wakefulness (Mallick, B.N. (750) 311)

5-HT_7; 5-HT_{1A}; Agonist; Serotonin; Suprachiasmatic nucleus; Hippocampus; Cerebellum; Light; Entrainment; Photic response (Ying, S.-W. (755) 246)

Irritant; Spice; Black pepper; Chemosensitivity; Capsaicin; Proton; Synergy; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

κ Antagonist
Cholecystokinin; Somatostatin; μ Agonist; μ Antagonist; Body temperature (Ghosh, S. (745) 152)

μ Antagonist
Cholecystokinin; Somatostatin; μ Agonist; κ Antagonist; Body temperature (Ghosh, S. (745) 152)

Antennal lobe
Neurotransmitter; Nitric oxide; Mushroom body; Olfactory information processing; Insect nervous system (Seidel, C. (769) 273)

Anterior caudate
DA agonist; Pramipexole; Parkinson's disease; Type II neuron (Piercey, M.F. (762) 19)

Anterior commissure
Hippocampus; Cerebral cortex; Cerebellar Purkinje cells; Patch-matrix compartments; Positional integrity; Neuronal survival (Martone, M.E. (771) 238)

Anterior dorsal tegmentum
Locomotion; Midbrain; GABA; Reticular formation; Hypothalamus (Sinnamon, H.M. (766) 271)

Anterior hypothalamus
Scent marking; Aggression; Medial preoptic area; Stress (Bamshad, M. (744) 15)

Neuronal thermosensitivity; Critical brain temperature; Temperature guardian neuron; Two-tier theory (Basta, D. (767) 361)

Anterior pretectal nucleus
Antinociception; Analgesia; Opioid agonist; Serotonergic agonist; Tail-flick (Mamede Rosa, M.L.N. (757) 133)

Anterior thalamus
Acetylcholine; Choline; Diffusion; Uptake; Caudate; Agarose gel (Xin, Q. (776) 126)

Anterior wall of the third ventricle
Prostaglandin E_2; Hyperthermia; EP_1 receptor; 17-Phenyl-ω-trinor prostaglandin E_2; Diagonal band of Broca; Fever (Oka, K. (767) 92)

Anterograde neuronal tracing
Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Anterograde tracing
Ventral pallidum; Substantia innominata; GABA; Dopamine; *Phaseolus vulgaris*-leucoagglutinin (Gaykema, R.P.A. (747) 173)

Diencephalon; Retrograde tracing; Biocytin; Dextran-tetramethylrhodamine; Neuroendocrine control; Teleostei; Gymnotiformes (Zupanc, G.K.H. (774) 106)

Dorsal thalamus; Preoptic area; Retrograde tracing; Biocytin; Teleostei; Gymnotiformes (Zupanc, G.K.H. (776) 117)

Anteroventral third ventricle
Excitotoxic lesion; Ouabain; Cerebrospinal fluid sodium; Angiotensin II (Veerasingham, S.J. (749) 157)

Antibody
Thyroid hormone receptor; mRNA; Rat pituitary (Li, M. (773) 125)

Antibody microprobe
Neuropeptide Y; Spontaneous release; Rat spinal cord; Cat spinal cord; Spinal transection (Mark, M.A. (754) 195)

Chronic constriction injury; Dorsal horn; Galanin; Spontaneous release (Colvin, L.A. (766) 259)

Anticatalytic
Aminopeptidase A; Angiotensin II; Angiotensin III; Dipsogenesis; Blood pressure; Aminopeptidase N (Song, L. (744) 1)

Anticholinesterase
Neostigmine; Carbaryl; Nicotinic acetylcholine receptor; Ion channel; PC12 cell (Nagata, K. (769) 211)

α_1-Antichymotrypsin
Neurofibrillary degeneration; Aluminum; Amyloid precursor protein; Aβ; Ubiquitin; Rabbit (Huang, Y. (771) 213)

α_1-Antichymotrypsin polymorphism
ApoE genotype; Parkinson's disease; Alzheimer's disease; Dementia; Genetic association (Yamamoto, M. (759) 153)

Anticipatory postural adjustment
Voluntary movement; Silent phase; Hoffmann reflex (Komiyama, T. (766) 227)

Antidepressant
Dopamine D_1 receptor binding site; Dopamine D_2 receptor binding site; Depression; Suicide; Post-mortem brain tissue; Neuroleptic (Bowden, C. (752) 227)

α_1-Adrenoceptor; α_2-Adrenoceptor; α_1-Adrenoceptor subtype; α_2-Adrenoceptor subtype; Post-mortem human brain; Suicide; Depression (De Paermentier, F. (757) 60)

cAMP-dependent protein kinase; [^{3}H]cAMP binding; Post-mortem brain tissue; Suicide; Depression; Cerebral cortex; Hippocampus; Amygdala (Lowther, S. (758) 223)

Dopamine; Homovanillic acid; DOPAC; Depression; Suicide; Post-mortem brain tissue; Basal ganglia (Bowden, C. (769) 135)

Serotonin; Receptor coupling; 5-HT uptake inhibitor; SSRI; Gpp(NH)p; 8-OH-DPAT binding; Hypothalamus (Li, Q. (769) 141)

Serotonin; SSRI; 5-HT_2; 5-HT_2 receptor; Receptor coupling; G-protein (Li, Q. (775) 225)

Antiepileptic drug
ADP-ribosylation; Kindling; Epilepsy; Hippocampus; Nitric oxide; Glyceraldehyde-3-phosphate dehydrogenase (Suzuki, K. (745) 109)

Anti-idiotypic antibody
5-Hydroxytryptamine (5-HT) receptor; Myelin; Node of Ranvier; Nerve regeneration; Wallerian degeneration; Mast cell (Yoder, E.J. (753) 299)

Antimuscarinic
Piriform cortex; Olfaction; Fast wave; Odor; Behavior (Zibrowski, E.M. (766) 39)

Mesopontine; Hyperactivity; Dopaminergic; Cholinergic; Psychosis (Mathur, A. (775) 144)

Antinociception
α-Trinositol; Spinal microdialysis; Amino acid; Prostaglandin E_2; Formalin test (Malmberg, A.B. (747) 160)

Analgesia; Histamine; Opioid; H_1 receptor; H_2 receptor; H_3 receptor; SKF92374; Cimetidine (Li, B.Y. (748) 168)

Morphine; L-Arginine; N^G-nitro-L-arginine; Nitric oxide synthase; Brain region; Serum morphine concentration; RIA (Bhargava, H.N. (749) 351)

Ibogaine; Noribogaine; Morphine; U-50,488H; DPDPE; Mouse (Bhargava, H.N. (752) 234)

Periaqueductal grey; Chemical stimulation; Dorsal horn; DL-Homocysteic acid; Rat (Waters, A.J. (752) 239)

Ibogaine; Tolerance; Morphine; U-50,488H; DPDPE; Opioid receptor agonist; Mouse (Cao, Y.-J. (752) 250)

Analgesia; Anterior pretectal nucleus; Opioid agonist; Serotonergic agonist; Tail-flick (Mamede Rosa, M.L.N. (757) 133)

Substance P; *N*-methyl-D-aspartate; Naloxone; Opioid; Capsaicin; Intrathecal administration; Spinal cord (Masuyama, T. (759) 241)

Carbachol; Glibenclamide; Atropine; Naloxone; Tail-flick latency; Rat (Kang, Y.-m. (761) 342)

7-Benzylidinenaltrexone (BNTX); Naltriben (NTB); δ Opioid receptor; Spinal cord; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α (Hammond, D.L. (765) 177)

Cold water swimming stress; Calcium channel; Calmodulin; Calcium/calmodulin dependent protein kinase II (Suh, H.W. (767) 144)

Noribogaine; Morphine; Tolerance; Mouse (Bhargava, H.N. (771) 343)

Antiopioid
Electrophysiology; γ-Aminobutyric acid; Opioid; Interneuron; Morphine-modulating peptide (Miller, K.K. (750) 81)

Antioxidant
Aging; Synaptic mitochondrion; Protein carbonyl; Thiol (Banaclocha, M.M. (762) 256)

Alzheimer's disease; Heme; Muscarinic receptor; Free radical; Thiyl radical; Estrogen; Vitamin E (Venters Jr., H.D. (764) 93)

Parkinson's disease; Substantia nigra; Catecholamine; Hindered amine (Masalha, R. (774) 260)

Oxidative stress; Parkinson's disease; Rotenone; MK-801; CNQX (Nakao, N. (777) 202)

Antioxidant enzymes
Glucose-6-phosphate dehydrogenase; Rat; Olfactory bulb; Periglomerular cell (Ninfali, P. (744) 138)

Anti-peptide antibodies
Serotonin; 5-HT_6 receptor; Immunoautoradiography; Immunocytochemistry; Rat brain (Gérard, C. (746) 207)

Anti-peptide antisera
Dopamine; Cellular expression; Forebrain; Hindbrain (Ariano, M.A. (746) 141)

Dopamine; Cellular expression; Forebrain; mRNA (Ariano, M.A. (752) 26)

Antipsychotic
Early-gene; Nucleus accumbens; Striatum; Dopamine; A_{2A} receptors (Pinna, A. (759) 41)

Partial agonist; Schizophrenia; Neuroleptic; Tardive dyskinesia; *N*-Methyl-D-aspartate; Glutamate (Lidsky, T.I. (764) 46)

Antipsychotic agent
Potassium channel; Kv2.1; Fluspirilene; Human (Wible, B. (761) 42)

Antisaccade
Saccade; Voluntary saccade; Express saccade; Fixation; Attention; Frontal lobe (Fischer, B. (754) 285)

Antisense
Adeno-associated virus; Gene therapy; Inferior colliculus; Seizure; γ-Aminobutyric acid (GABA) (Xiao, X. (756) 76)

Enkephalin; Sexual behavior; Ventromedial hypothalamus; Phosphorothioate oligodeoxynucleotide; mRNA (Nicot, A. (777) 60)

Antisense mapping
DOR-1; δ Receptor; δ_1; δ_2; Analgesia (Rossi, G.C. (753) 176)

Antisense oligodeoxynucleotide
NMDA receptor; Elevated plus maze; Anxiety; Seizure (Zapata, A. (745) 114)

$GABA_A$ receptor; $\gamma 2$ subunit; Diazepam; Rat hippocampus; Radioligand binding (Karle, J. (765) 21)

Antisense oligonucleotide
Cloned octopamine/tyramine receptor; *Drosophila melanogaster*; *Xenopus* oocyte expression; Calcium; G-protein coupling (Reale, V. (769) 309)

Anuran
Hypoglossal nerve; Afferent; Tongue; Sensory feedback (Anderson, C.W. (771) 285)

Anxiety
NMDA receptor; Antisense oligodeoxynucleotide; Elevated plus maze; Seizure (Zapata, A. (745) 114)

Neurosteroid; GABA-A receptor; Mirrored chamber; Progesterone; Motor activity (Reddy, D.S. (752) 61)

Forced swim; Restraint; Plus maze; Chloride ion flux; Fear; Rat (Martijena, I.D. (752) 136)

Alcoholism; Amygdala; Stress; Emotionality (Möller, C. (760) 94)

Dopamine; Elevated plus maze; Prefrontal cortex; 6-Hydroxydopamine; Locomotion; Rat (Espejo, E.F. (762) 281)

Diazepam; Benzodiazepine; Chronic treatment; Postnatal exposure; Learning; Memory; Cerebral glucose utilization (Schroeder, H. (766) 142)

Medial prefrontal cortex; Infralimbic cortex; Prelimbic cortex; Respiratory quotient; Passive avoidance; Autonomic; Rat (Jinks, A.L. (772) 181)

Streptozotocin diabetes; Serotonin release; Microdialysis; Serotonin metabolism; Restraint; Corticosterone; Elevated plus maze; Locomotor activity (Thorré, K. (772) 209)

Anxiolytic
Alphaxalone; Alprazolam; Flumazenil; $GABA_A$ receptor; Muscimol; Neuroactive steroid; Staircase test (Pick, C.G. (765) 129)

βA4 oligomers/aggregates
Clathrin coated vesicle; Apolipoprotein E isoform; β-Amyloid; βA4 conjugate; Dimyristoyl phosphatidylcholine liposome; *Tau* (Berg, M.J. (752) 72)

AP-1
NMDA; AMPA; Transcription factor; Cerebellar granule cell; Rat (Hou, Y.-N. (754) 79)

4-AP
K^+ channel; TEA (Müller, M. (769) 245)

AP-1
Transcription factor; Fra; Jun-D; Hippocampus; Kainic acid; Seizure (Feng, Z. (770) 53)

L-AP4
Electrical kindling; Epileptogenesis; Presynaptic glutamate receptor; Seizure; MPPG; In vitro $^{45}Ca^{2+}$ uptake; In vitro [^{3}H]D-aspartate release (Abdul-Ghani, A.-S. (755) 202)

Apamin
Brain damage; Ca^{2+}-activated K^+ channel; Cerebellum; Seizure; Infusion (Mourre, C. (778) 405)

Apical dendrite
Medial prefrontal cortex; Pyramidal cell and interneuron; Ca^{2+} signalling; Long-term depression (Gabbott, P.L.A. (747) 352)

Apis mellifera
Actin; Brain; Calmodulin; MARCKS; Protein kinase C (Müller, U. (757) 24)

ApoE-deficient mouse
Neurotrophic; Neurodegeneration; Synapse; Alzheimer's disease (Masliah, E. (751) 307)

ApoE genotype
α_1-Antichymotrypsin polymorphism; Parkinson's disease; Alzheimer's disease; Dementia; Genetic association (Yamamoto, M. (759) 153)

Apolipoprotein E
Alzheimer's disease; Aβ1–40; Late-onset: sporadic (Ishii, K. (748) 250)

Amyloid β-protein; Senile plaque; Laser scan microscopy; Alzheimer's disease (Nishiyama, E. (750) 20)

Macaca mulatta; Prefrontal cortex; β-Amyloid; Senile plaque; Glia; Immunofluorescence; Carbocyanine double labelling (Härtig, W. (751) 315)

Injury; Brain; Rat; Subdural haematoma; Immunohistochemistry; Immunoblotting (Horsburgh, K. (763) 103)

Alzheimer's disease; Amyloid β protein; Amyloid deposition; N-terminus antibody; C-terminus antibody (Aizawa, Y. (768) 208)

Synthetic peptide; Endocytosis; Receptor associated protein; Cytoplasmic calcium; $[Ca^{2+}]_i$; Neuron (Wang, X.-s. (778) 6)

Apolipoprotein E (apoE)
Behavior; Hippocampus; Memory; Mice; Immunocytochemistry; Alzheimer's disease (Oitzl, M.S. (752) 189)

Apolipoprotein E isoform
Clathrin coated vesicle; β-Amyloid; βA4 conjugate; βA4 oligomers/aggregates; Dimyristoyl phosphatidylcholine liposome; *Tau* (Berg, M.J. (752) 72)

Apomorphine
Single-unit recording; Dopamine; Cocaine; SCH 23390; Substantia nigra; Ventral tegmental area (Lee, T.H. (744) 293)

Pertussis toxin; Ventral tegmental area; Nucleus accumbens; Locomotor activity; Amphetamine; Sensitization (Narayanan, S. (748) 263)

Neutral endopeptidase 24.11 (EC 3.4.24.11); Aminopeptidase N (EC 3.4.11.2); Prohormone convertase; Haloperidol (Waters, S.M. (754) 28)

Apoptosis
Focal ischemia; Enkephalin; TUNEL; Hybridization, in situ; Rat striatum (Popovici, T. (744) 185)

3-Nitropropionic acid; Mitochondria; DNA fragmentation; Huntington's disease (Sato, S. (745) 343)

Programmed cell death; Aging; Inner ear; Cochleo-saccular degeneration; Mouse (Usami, S.-i. (747) 147)

Brain damage; Bax; Bcl-2; Programmed cell death; Hypoxic-ischaemia; Alzheimer's disease (MacGibbon, G.A. (750) 223)

6-OHDA; PC12; Parkinson's disease; p53; Bax (Blum, D. (751) 139)

Polyamine; Spermine; Cerebellar granule cell; *N*-Methyl-D-aspartate receptor; CPP32; Caspase (Harada, J. (753) 251)

Alzheimer's disease; Diethyldithiocarbamate; Dihydrorhodamine; Hippocampal neuron; 4-Hydroxynonenal; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Ouabain; Superoxide anion radical (Mark, R.J. (756) 205)

Cyclosporine; Development; Excitotoxicity; Neuronal culture; *N*-Methyl-D-aspartate (NMDA) (McDonald, J.W. (759) 228)

Hypoxia; Cell death; Cerebral cortex; Development; Corticogenesis (Stewart, W.B. (760) 17)

Catecholamine; Ventricular zone; α_1-Adrenoreceptor; Cell culture; DNA synthesis (Pabbathi, V.K. (760) 22)

3,4-dihydroxyphenylglycolaldehyde; Neurotoxin; Catecholamine; Neuronal death; Alzheimer's disease (Burke, W.J. (760) 290)

LDL; Oxidized LDL; CNS neuron; Oxidation response; Neurotoxicity; Scavenger receptor (Sugawa, M. (761) 165)

Olfactory neuron; Neural stem cell; Aging (Fung, K.-M. (761) 347)

Programmed cell death; Necrosis; Rat; Neuron; Astrocyte; Heat shock; DNA fragmentation; TUNEL; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

Chronic lithium; Excitotoxicity; Neuroprotection; Polyamine (Sparapani, M. (765) 164)

Cerebral ischemia; Rat; Cell cycle protein; p53 response protein; DNA damage; DNA repair (Li, Y. (765) 301)

Deafferentation; Degeneration; p53 (Isono, M. (765) 319)

ALZ-50; c-*fos*; Cell death; p53 (Miller, M.W. (769) 233)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); c-Jun; c-Fos; Dopaminergic neuron; Parkinson's disease (Nishi, K. (771) 133)

Cell death; Cerebellar granule neuron; Intracellular calcium; Mastoparan; Cholera toxin; Thapsigargin; Caffeine (Lin, S.-Z. (771) 184)

1*S*,3*R*-ACPD; Quinolinic acid; Kainic acid; NMDA receptor; Excitotoxicity; Neurodegeneration (Wang, Y. (772) 45)

In situ end labeling; Lewy body; Parkinson's disease; Diffuse Lewy body disease; Neurodegeneration; Substantia nigra (Tompkins, M.M. (775) 24)

Mitochondria; Complex I inhibitor; Free radical; Parkinson's disease (Seaton, T.A. (777) 110)

Neuronal cell; Nerve growth factor; Neuroprotection; Serum deprivation; $5\text{-}HT_{1A}$ agonist; 8-OH-DPAT (Ahlemeyer, B. (777) 179)

Sialoglycopeptide; PC12 cell; Dibutyryl cAMP; Nerve growth factor; Serum (Kobayashi, Y. (778) 309)

Apparent diffusion coefficient
Epilepsy; Diffusion; Interictal discharge; Ion-selective microelectrode; Cerebral cortex (Schwindt, W. (753) 86)

Apparent diffusion coefficient of brain water (ADCw)
Global ischemia; Hyperglycemia; MRI; Diffusion imaging; Stroke (Huang, N.C. (757) 139)

Appetitive behavior
Nucleus accumbens; Psychomotor stimulant; Cocaine; Single neuron recording; Self-administration; Incentive stimulus; Reward (Peoples, L.L. (757) 280)

Applied field
Dentate gyrus; Paired-pulse facilitation; Action potential; Synaptic plasticity (Foster, B. (758) 59)

Apteronotus leptorhynchus
Preglomerular nucleus; Telencephalon; Neuronal tract tracing; Biocytin; Dextran-tetramethylrhodamine; Gymnotiform (Zupanc, G.K.H. (761) 179)

APV
Rat; Microtubule associated protein; Glutamate receptor; Synaptic plasticity; NMDA (Sánchez, C. (765) 141)

Arachidonate
Positron emission tomography; Brain; Blood flow; Phospholipid metabolism; Monkey; Rat (Chang, M.C.J. (755) 74)

Docosahexaenoate; Serotonin-2 receptor; Phospholipase A_2; Phospholipase C; C6 glioma cell (Garcia, M.C. (768) 43)

Arachidonic acid
G-protein; Phospholipase A; Phospholipase C; Diacylglycerol; Protein kinase C; Associative learning; Memory (Talk, A.C. (751) 196)

Neurotoxicity; Autoradiography; Fatty acid; Palmitic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

Hippocampus; Synaptosome; Amino acid; Uptake carrier; Exocytosis; Protein kinase C (Breukel, A.I.M. (773) 90)

Cerebellar granule cell, dissociated; Rhodamine 123; Mitochondrial membrane potential; *N*-Methyl-D-aspartate; Flow cytometry (Camins, A. (777) 69)

Arachnoid
Melatonin; Melatonin receptor; Leptomeninges; Pia mater; Human fetus (Drew, J.E. (761) 87)

Architectonics
Primate; Monkey; Primary motor cortex; Premotor cortex; Immunocytochemistry (Preuss, T.M. (767) 148)

Arcuate nucleus
Area postrema; Nucleus of the solitary tract; Paraventricular nucleus; Ingestive behavior; Food intake; Diet selection (Edwards, G.L. (755) 84)

Neuropeptide Y; PreproNPY mRNA; Hypothalamus; Paraventricular nucleus; Streptozotocin; Diabetes; Hyperphagia (Sahu, A. (755) 339)

Opioid; Lactation; Naltrexone; Opioid mRNA; Pituitary; Rat (Kim, E.-M. (769) 303)

Neuropeptide Y; Galanin; Insulin; Hypothalamus; Paraventricular nucleus (Wang, J. (777) 231)

Area postrema
Nucleus of the solitary tract; Arcuate nucleus; Paraventricular nucleus; Ingestive behavior; Food intake; Diet selection (Edwards, G.L. (755) 84)

Cholecystokinin; Nucleus of the solitary tract; Ventrolateral medulla; Vagus nerve; Catecholamine; Old-world primate; Rhesus monkey; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

Brain–gut axis; Autonomic nervous system; Subcoeruleus nucleus; Nucleus of the solitary tract; Stress (Mönnikes, H. (770) 277)

A_{2A} receptors
Early-gene; Nucleus accumbens; Striatum; Dopamine; Antipsychotic (Pinna, A. (759) 41)

Arginine
Nitric oxide; Glial cell; Fluorocitrate; Cerebellum; In vivo microdialysis; Barrel rotation; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

L-Arginine
Brain ischemia; N^{ω}-Nitro-L-arginine; Reperfusion; Hypertensive rat (Sadoshima, S. (744) 246)

Morphine; N^G-nitro-L-arginine; Antinociception; Nitric oxide synthase; Brain region; Serum morphine concentration; RIA (Bhargava, H.N. (749) 351)

Nitric oxide; L-NAME; NOC 18; Medulla oblongata; Rat; Sympathetic nervous system; Arterial pressure (Kagiyama, S. (757) 155)

Nitric oxide; Spinal cord; Blood pressure; N^G-Nitro-L-arginine methyl ester (L-NAME); Sodium nitroprusside; Methylene blue (Del Carmen García, M. (764) 67)

L-Nitroarginine; Hepatic encephalopathy; Portacaval shunt; Nitric oxide synthase; Western blotting; mRNA; RT-PCR (Rao, V.L.R. (765) 169)

Arginine specific ADP-ribosylation
ADP-ribosylarginine hydrolase; Immunohistochemistry; Mouse brain; Rat CSF; Western blotting (Miyaoka, T. (746) 1)

Arginine vasopressin
Lithium; Supraoptic nucleus; Paraventricular nucleus; In situ hybridization; Rat (Anai, H. (772) 161)

Arg-vasopressin
Suprachiasmatic nucleus; γ-Aminobutyric acid; Slice culture (Isobe, Y. (755) 213)

4-Arm baited, 4-arm unbaited, 8-arm radial maze
Frontal cortex; Medial prefrontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; Learning; Reversal; Conditioned emotional response; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

Aromatase
Dihydrotestosterone; 5α-Reductase; Birdsong; *Robustus archistriatalis*; Aza-steroid (Grisham, W. (750) 122)

Preoptic area; Testosterone; Brain lesion; Excitotoxin; NMDA (*N*-methyl-D-aspartate); Sex behavior; Musk shrew (Veney, S.L. (756) 273)

Aromatic amino acid decarboxylase
Positron emission tomography; 6-[^{18}F]Fluoro-L-DOPA; 3-*O*-Methyl-6-[^{18}F]fluoro-L-DOPA; Carbidopa; Catechol-*O*-methyltransferase; COMT inhibitors: CGP 28014, OR-611, Ro 40-7592 (Psylla, M. (767) 45)

Arousal
Cerebral blood flow; Cutaneous blood flow; Internal carotid artery; Ultrasound Doppler flowmeter (Yu, Y.-H. (767) 1)

Accumbens; Dopamine; Microinjection; Nucleus accumbens septi (Campbell, A. (771) 55)

Sleep; Wakefulness; Startle reflex; Pre-pulse inhibition (Horner, R.L. (778) 127)

Arterial blood pressure
α_2-Adrenoceptor; Imidazoline receptor; H_2 histamine-like receptor; Ventrolateral medulla; Intracerebroventricular; Heart rate (Ally, A. (761) 283)

Isoguvacine; Heart rate; Receptor autoradiography; Flumazenil; Benzodiazepine; Medulla (Barron, K.W. (773) 53)

Arterial chemoreceptor
Carotid body; Neutral endopeptidase 24.11; Immunotitration; Ultrastructural localization; Enkephalinase; Neprilysin (Kumar, G.K. (748) 39)

Arterial pressure
Nitric oxide; L-NAME; NOC 18; Medulla oblongata; Rat; L-Arginine; Sympathetic nervous system (Kagiyama, S. (757) 155)

Sympathetic nervous system; Ventrolateral medullum; Angiotensin; Losartan; Rabbit (Hirooka, Y. (772) 107)

Arterial pressure and heart rate
Nitric oxide; Temperature regulation; Heat loss; Skin vasomotion; Thermal panting; Rabbit (Eriksson, S. (774) 269)

Arthropod
Neuropeptide; FMRFamide; Substance P; Central nervous system; Sensory afferents; Chemoreception; Immunocytochemistry (Schmidt, M. (746) 71)

Artificial neural network
Olfactory tubercle; Transsynaptic transfer; WGA-HRP; Image analysis; Olfactory cortex; Olfactory bulb (Josephson, E. (744) 253)

Artificial ureteral calculosis
Estrus; Pain-related behavior; Rat (Giamberardino, M.A. (774) 234)

Ascorbic acid
Morphine; Dopamine xanthine metabolism; Uric acid; Striatum; Release, in vivo (Enrico, P. (745) 173)

Aspartate
Butorphanol; Glutamate; Locus coeruleus; Morphine; Microdialysis; Nor-binaltorphimine; U-69,593 (Hoshi, K. (753) 63)

Entopeduncular nucleus; Glutamate; Microdialysis; Reserpine; 6-Hydroxydopamine (Biggs, C.S. (753) 163)

Proline; Synaptic plasticity; Hippocampus; Glutamate; Transmitter release; Paired pulse facilitation; Hyperprolinemia (Cohen, S.M. (769) 333)

Asphyxia
Newborn; Cocaine; Cerebral blood flow; Carbon dioxide; Hypoxia (Feuer, P. (755) 142)

Association
Nerve growth factor; Rat brain; Enzyme-linked immunosorbent assay; Gel filtration; High molecular weight molecule; Sedimentation (Hoener, M.C. (772) 1)

Association auditory cortex
Cortical plasticity; Learning; Magnetoencephalography (MEG); Magnetic source imaging (MSI); Auditory discrimination; Primary auditory cortex (Cansino, S. (764) 53)

Associative learning
G-protein; Phospholipase A; Phospholipase C; Arachidonic acid; Diacylglycerol; Protein kinase C; Memory (Talk, A.C. (751) 196)

Astressin
Corticotropin-releasing factor (CRF) antagonist; Seizure; Neuron loss; Hippocampus (Maecker, H. (744) 166)

Astrocytes
Glutamate uptake; GLAST; Retina; Pigment epithelium; Glia; Müller cell; Immunocytochemistry (Lehre, K.P. (744) 129)

Nitrinergic transmission; Immunocytochemistry; Nitric oxide; Somatosensory; Brainstem (Kharazia, V.N. (744) 151)

Cerebral blood flow; Cerebrovascular regulation; Endothelium; Neuron; Nitric oxide synthase; Rat (Weikert, S. (748) 1)

Free radical; Glutathione; Anisotropy; Mouse; Lipid peroxidation; Starvation; Primary culture (Papadopoulos, M.C. (748) 151)

Bradykinin; Glutamate release; Synaptobrevin; Clostridial neurotoxin; SNAP-25; Syntaxin; Rat (Jeftinija, S.D. (750) 41)

Cell swelling; Glutamate uptake; Glutamate release; Hypothermia; Lactic acid; Potassium ion release (Bender, A.S. (750) 59)

Kainic acid; bFGF; FGR-3; Microglia (Ballabriga, J. (752) 315)

Progenitor cell line; Type-1 astrocyte; Growth factor; Reactive gliosis; Astroglial cell line (Seidman, K.J.N. (753) 18)

Alzheimer's disease; β-Amyloid; Glutamate uptake; Glucose uptake (Parpura-Gill, A. (754) 65)

Glutamine; Transport; Cerebellar granule cell; Cerebral cortical neuron (Su, T.-Z. (757) 69)

Peripheral-type benzodiazepine receptor; Portacaval anastomosis; Hepatic encephalopathy; PK11195 (Desjardins, P. (758) 255)

Aminotriazole; Catalase; Glutathione; Glutathione reductase; H_2O_2; Mercaptosuccinate; Pentose phosphate pathway (Dringen, R. (759) 67)

Neuroglia; Aging; Glial fibrillary acidic protein; Gene expression; Sciatic axotomy (Kane, C.J.M. (759) 163)

Fibroblast growth factor-2 (FGF-2); Glial fibrillary acidic protein (GFAP); Trauma (Reilly, J.F. (759) 277)

Aging; Alzheimer's disease; Cognition; Cysteamine; Hippocampus; Inclusions; Locomotion; Somatostatin (Justino, L. (761) 127)

Hepatocyte growth factor; Hepatocyte growth factor activator; Alzheimer disease; mRNA (Yamada, T. (762) 251)

Amyloid β protein; Alzheimer's disease; Human amylin; Reactive gliosis; Cellular redox activity (Abe, K. (762) 285)

Neuroimmune; Lipopolysaccharide; Zymosan; Kainic acid; Microglia; Spleen (Charlton, M.E. (764) 141)

HIV; AIDS; Central nervous system; Microglia; Organotypic culture; Receptor; Endocytosis (Hao, H.-N. (764) 149)

Mitochondrion; Neuron; Respiration; Neurodegeneration (Almeida, A. (764) 167)

Glial fibrillary acidic protein; Vimentin; Protein phosphorylation; Kainic acid; Neurotoxicity; Excitatory amino acid; Gliosis (Lenz, G. (764) 188)

Programmed cell death; Apoptosis; Necrosis; Rat; Neuron; Heat shock; DNA fragmentation; TUNEL; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

Nuclear magnetic resonance; Brain; Glucose; Compartmentation; ^{13}C; Neuron; Tricarboxylic acid cycle (TCA) cycle (Aureli, T. (765) 218)

Glia; Patch-clamp; Neocortex; Volatile anaesthetic; Enflurane; Isoflurane; Halothane (Felisberti, F. (766) 56)

Cerebellum; Cerebral cortex; Ependyma; Glia; Folic acid; Formate; Spinal cord; Tetrahydrofolate dehydrogenase (Neymeyer, V. (766) 195)

Brain; Glial fibrillary acidic protein; Ischemia; Microglia; 5′-Nucleotidase; OX42 (Braun, N. (766) 213)

Insulin-like growth factor; Binding protein; Transgenic mouse; Brain development (Ni, W. (769) 97)

Neuron; Coculture; Neuroprotection; Glutathione; Hydrogen peroxide; Dopamine; Neurodegeneration (Drukarch, B. (770) 123)

Rat; Ethanol; mRNA; Metallothionein; In vitro; Hypotonic (Aschner, M. (770) 289)

Cytotoxicity; Peroxynitrite; Nitric oxide (Amin, N. (773) 227)

Alzheimer's disease; Kynurenine; Tryptophan; NGF (Dong-Ryul, L. (777) 228)

Cell injury; Glutamate; Uptake; Transporter (Eng, D.L. (778) 215)

Mercury vapor Hg^0; In utero; Rat; Metallothionein; Brain; Biomarker (Aschner, M. (778) 222)

Brain; Calcium; Calcyclin; Neuronal migration pathway; Rat (Yamashita, N. (778) 388)

Astrocyte cell line
Temperature-sensitive mutant of simian virus 40; tsA640; Glial fibrillary acidic protein (Kitamura, Y. (759) 295)

Astrocyte proliferation
Brain injury; γ-Irradiation; Autoradiography; Immunocytochemistry; GFAP; S100β (Janeczko, K. (770) 237)

Astrocytoma
TDN-345; C6-10A; Nerve growth factor; Neurotrophic factor; Induction (Fukumoto, H. (774) 87)

Astrocytoma cell
Lipocortin; Annexin; Induction; Secretion; Glucocorticoid (Mizuno, H. (746) 265)

Astrocytosis
Blood–brain barrier; Gliosis; Macrophage; Microglia (Penkowa, M. (774) 256)

Astroglia
Microglia; Motoneuron; Sensory ganglion; Nerve injury; Spinal cord; GFAP; OX-42 (Molander, C. (747) 122)

Cell cycle; Proliferation; Olidodendroglia; Microglia; Neuroglia; Image analysis (Vela Hernández, J.M. (747) 130)

Neurofilament, 68 kDa; Heat-shock protein; c-*fos*; Acid fuchsin; Axonal injury; Cell death; Glial fibrillary acidic protein; Head trauma (Dunn-Meynell, A.A. (761) 25)

Cerebral ischemia; Delayed neuronal death; CA1; Hypothermia; Neuroprotection; Microglia; Immunohistochemistry (Nakajima, Y. (765) 113)

Astroglial cell line
Astrocyte; Progenitor cell line; Type-1 astrocyte; Growth factor; Reactive gliosis (Seidman, K.J.N. (753) 18)

Astrogliosis
Multiple sclerosis; Insulin-like growth factor-I; Insulin-like growth factor-I receptor; Myelination (Wilczak, N. (772) 243)

Asymmetry
Alcohol; *Anolis carolinensis*; *Anolis*; Lateralization; Aggression (Deckel, A.W. (756) 96)

AT_1 antagonist
Fos; Drinking; Subfornicai organ; Organum vasculosum of the lamina terminalis; Angiotensin; Converting enzyme inhibitors (McKinley, M.J. (747) 43)

ATF-2
Cyclic AMP response element; Microglia; Neuron; Alzheimer disease (Yamada, T. (749) 329)

Athymic
BALB/c; Mice; Microglia; Lectin; Mac-1; Thymosin α1; Cortisol (Htain, W.-W. (755) 63)

Atipamezole
c-Fos; Locus coeruleus; Rostral ventrolateral medulla; Withdrawal; α_2-Adrenergic receptor; Catecholamine (Stornetta, R.L. (764) 81)

Atonia
NMDA; Retrorubral nucleus; Twitch; REM behavior disorder; Narcolepsy; Periodic leg movement (Lai, Y.Y. (745) 257)

ATP
3-Acetylpyridine; Cerebellum; cGMP; Motor coordination; Pramipexole; Bromocriptine (Sethy, V.H. (754) 181)

Phosphate transport; Inorganic phosphate; Cortical neuron; NADPH; Pentose phosphate; Energy metabolism (Glinn, M. (757) 85)

(Na,K)-ATPase
Aldosterone; In situ hybridization; Salt appetite (Grillo, C. (767) 120)

ATP, extracellular
Adenylate; Hypometabolism (Lutz, P.L. (769) 281)

ATP sensitive K^+ channel
Obesity; Glucose; Sulfonylurea; Diet induced obesity; Diabetes (Levin, B.E. (776) 146)

Ventromedial hypothalamic nucleus; Phosphorylation; Glibenclamide; AMPPNP; Metabolism; Glucose (Routh, V.H. (778) 107)

ATP-sensitive potassium channel
Substantia nigra pars reticulata; Diazoxide; Glibenclamide; Rat (Ye, G.L. (753) 1)

AT_1 receptor
Brain angiotensin system; [^{125}I]Sar^1–Ang II binding; [^{125}I]CGP42112 binding; AT_2 receptor; Immunocytochemistry (Jöhren, O. (757) 218)

AT_2 receptor
Brain angiotensin system; [^{125}I]Sar^1–Ang II binding; [^{125}I]CGP42112 binding; AT_1 receptor; Immunocytochemistry (Jöhren, O. (757) 218)

Atropine
Drinking; Acetylcholine; Streptozotocin; Diabetes mellitus; Lateral hypothalamus (Murzi, E. (752) 184)

Acetylcholine; Hippocampus; CA1; LTP; Medial septal area; Current source density analysis; Ventral hippocampal commissure (Markevich, V. (754) 95)

Nicotine; Mecamylamine; Naloxone; Dopamine; Prolactin; TIDA neuron; Median eminence (Shieh, K.-R. (756) 266)

Antinociception; Carbachol; Glibenclamide; Naloxone; Tail-flick latency; Rat (Kang, Y.-m. (761) 342)

Epilepsy; Transfer; Kindling; Muscarinic; Acetylcholine; Amygdala; Perirhinal cortex (Buchanan, J.-A.M. (771) 63)

AtT/20
TNF receptor; Pituitary; TtT/GF (Kobayashi, H. (758) 45)

Attention
Startle; Experimental set; Reaction time; Reticulo-spinal pathway; Habituation; Electromyography (Valls-Solé, J. (751) 155)

Saccade; Antisaccade; Voluntary saccade; Express saccade; Fixation; Frontal lobe (Fischer, B. (754) 285)

Dopamine; Sensory; Single-unit; Ventral tegmental area (VTA); Mesolimbic (Horvitz, J.C. (759) 251)

Audiogenic seizures
Post-tonic clonus; Neuronal firing; Habituation; Medial geniculate body; GEPR-9s (N'Gouemo, P. (761) 217)

Inferior colliculus; Genetically epilepsy-prone rats; Seizures; Neuronal network (Chakravarty, D.N. (761) 263)

Seizure repetition; 2-[^{14}C]Deoxyglucose; Cerebral energy metabolism (Pereira de Vasconcelos, A. (762) 114)

Global brain ischemia; Neck tourniquet; Inferior colliculi; Silver impregnation (Vanický, I. (766) 262)

Auditory brainstem response
Heat shock protein 72; Microtubule-associated protein 2; Immunohistochemistry; Hypoxia; Immunoblotting (Inagaki, M. (757) 111)

Auditory cortex
Internal representation; Magnetoencephalography; Human; Brain; Omission (Raij, T. (745) 134)

Auditory discrimination
Cortical plasticity; Learning; Magnetoencephalography (MEG); Magnetic source imaging (MSI); Primary auditory cortex; Association auditory cortex (Cansino, S. (764) 53)

Auditory system
Avian; Parrot; Songbird; Field L; Nucleus basalis; Vocal learning (Farabaugh, S.M. (747) 18)

Cell death; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Deafferentation; Brain slice (Hyson, R.L. (749) 61)

Inferior colliculus; Intracellular; Recording, in vivo (Pedemonte, M. (759) 24)

Auditory system central anatomy
Trk protein distribution; Cochlear nucleus; Distribution (Burette, A. (776) 10)

Augmentation
Serotonin; Facilitation; Residual calcium; Presynaptic enhancement (Qian, S.-M. (771) 259)

Autapse
Microculture; Glutamatergic transmission; Synaptogenesis; Serum-free culture; cAMP; Protein kinase A (Leßmann, V. (763) 111)

Autocorrelogram
Medulla; Pain; Microstimulation; Spike train; Oscillation (Hentall, I.D. (745) 348)

Bursting activity; Interspike interval; Discharge pattern analysis; Extracellular recording (Martinson, J. (750) 129)

Autocrine
Suramin; IGF-II; SH-SY5Y; Neuroblastoma (Sullivan, K.A. (744) 199)

Autoimmunization
Nerve growth factor; Nociception; Hot plate test; Cerebrospinal fluid (Chudler, E.H. (765) 327)

Autoinhibition
Acetylcholine release; Choline; Cyclic GMP; Hippocampus; Nitric oxide (NO) (Suzuki, T. (760) 158)

Autonomic
Medial prefrontal cortex; Infralimbic cortex; Prelimbic cortex; Anxiety; Respiratory quotient; Passive avoidance; Rat (Jinks, A.L. (772) 181)

Autonomic anatomy
Small intestine; Tract-tracer; β-Galactosidase; Sympathetic topography (Mabon, P.J. (753) 245)

Autonomic nervous system
Kidney; Sympathetic nervous system; Osmoregulation; Visceral receptor; Circumventricular organ; Limbic system; Cardiovascular regulation (Solano-Flores, L.P. (753) 102)

Limbic cortex; Cingulate cortex; D,L-Homocysteic acid (Fisk, G.D. (754) 204)

Cerebellum; Behavior; Blood pressure; Collateral; Axonal tracer (Ruggiero, D.A. (760) 272)

Dorsal vagal nucleus; Nucleus ambiguus; Nucleus tractus solitarius; Parasympathetic nervous system; Periaqueductal gray matter (Farkas, E. (764) 257)

Adrenal gland; Glucagon; Glucose metabolism; Insulin; Pancreas (Jansen, A.S.P. (766) 29)

Brain–gut axis; Subcoeruleus nucleus; Nucleus of the solitary tract; Area postrema; Stress (Mönnikes, H. (770) 277)

Autonomic regulation
Excitatory amino acid receptor; Phosphonovaleric acid; Cardiovascular regulation; Cardiovagal excitation; Sympatho-excitation (Colombari, E. (749) 209)

Autoradiography
A_1 Adenosine receptor; A_{2A} Adenosine receptor; A_3 Adenosine receptor; Brain; Radioligand binding (Shearman, L.P. (745) 10)

Opioid; Opioid receptor; Hibernation; Ground squirrel; Septohippocampal complex (Cui, Y. (747) 189)

Cocaine; Vesicular monoamine transporter; Human brain; Striatum (Staley, J.K. (747) 219)

Cerebral contusion; Excitatory amino acid; Microdialysis; Cerebral blood flow; Extravasation; Rat (Koizumi, H. (747) 304)

Transferrin receptor; Iron; Substantia nigra; Ventral tegmental area; Parkinson's disease; Oxidative stress; Cell death (Faucheux, B.A. (749) 170)

Protein kinase C; Cerebral ischemia; Middle cerebral artery occlusion; Rat; Second messenger (Tohyama, Y. (750) 155)

Cocaine; Dopamine transporter; Sensitization; mRNA; In situ hybridization histochemistry; Rat (Letchworth, S.R. (750) 214)

Galanin; Immunocytochemistry; Median eminence; Electron microscopy; Nerve ending; Tanycyte; Guinea pig (Dutriez, I. (753) 36)

Neurotoxicity; Fatty acid; Palmitic acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

5-HT_{1A} serotonin receptor; NMDA receptor; MK-801; [^{3}H]8-OH-DPAT (Wędzony, K. (756) 84)

M2 muscarinic receptor; Spontaneously hypertensive rat; Blood pressure; Rostral ventrolateral medulla; Polymerase chain reaction (Gattu, M. (756) 125)

Subacute lead exposure; NMDA receptor; Hippocampus; Cerebral cortex; Rat brain; Blood lead; Brain lead (Ma, T. (760) 187)

Radioligand assay; In situ hybridization; Tolerance; Hippocampus; Cerebral cortex; Striatum; Cerebellum (Johansson, B. (762) 153)

Cyclic guanosine monophosphate; Cyclic adenosine monophosphate; Protein kinase; Phosphodiesterase; Rat brain (Bonkale, W.L. (763) 1)

Brain injury; γ-Irradiation; Astrocyte proliferation; Immunocytochemistry; GFAP; S100β (Janeczko, K. (770) 237)

α_{2A}-Adrenoceptor; α_{2C}-Adrenoceptor; [^{3}H]MK912; Spinal cord; Striatum (Uhlén, S. (770) 261)

Learning and memory; Morris water maze; Passive avoidance; Spontaneously hypertensive rat; Nicotinic acetylcholine receptor; Rubidium efflux; Vesicular acetylcholine transporter (Gattu, M. (771) 89)

Spontaneously hypertensive rat; Nicotinic receptor; Water maze; Passive avoidance; Rubidium efflux; Learning and memory (Gattu, M. (771) 104)

M1 muscarinic receptor; M2 muscarinic receptor; Spontaneously hypertensive rat; Blood pressure; Hypothalamus; Medulla (Gattu, M. (771) 173)

L-CCG-II; DCG-IV; DHPG; Metabotropic glutamate receptor (Testa, C.M. (773) 15)

Ischemia; Mouse; Middle cerebral artery; Nitric oxide synthase; Protein kinase C; Substantia nigra (Hara, H. (774) 69)

Motilin receptor; Synaptosome; Subcellular fractionation (Depoortere, I. (777) 103)

μ-Knockout; Transgenic mouse; *MOR* gene; Opioid receptor; Receptor, μ-, δ-, κ_1- and κ-; Opioid receptor mapping; Gene deletion (Kitchen, I. (778) 73)

Autoreceptor
Betaxolol; Serotonin-1A; β-Adrenoceptor; Electroencephalogram; Power spectral analysis; Rapid eye movement (REM) (Seifritz, E. (759) 84)

Aversive emotional arousal
Fear-potentiated startle; Ventral tegmental area; Quinpirole; Muscimol; Dopamine neuron; γ-aminobutyric $acid_A$ receptor (Munro, L.J. (746) 231)

Aversive learning
Amygdala; Benzodiazepine; Midazolam; Post-training; Memory; Amnesia; Inhibitory avoidance (Dickinson-Anson, H. (752) 197)

Avian
Parrot; Songbird; Auditory system; Field L; Nucleus basalis; Vocal learning (Farabaugh, S.M. (747) 18)

Parrot; Nucleus basalis; Somatosensory; Tactile representation (Wild, J.M. (755) 137)

Avian brain
Limbic striatum; Electron microscopy; GABA; Glutamate; Synapse (Csillag, A. (750) 171)

Avoidance
Neuropsin; Serine protease; Learning impairment; Hippocampus; Oxidative stress; Diethyldithiocarbamate (Akita, H. (769) 86)

Avoidance learning
Tryptophan-free diet; Radial-arm maze; Hippocampus; Cortex; Serotonin release (Stancampiano, R. (762) 269)

Awake
Glutamate reuptake; Microdialysis; Rat; Phenylephrine; Frontoparietal cortex (Alexander, G.M. (766) 1)

Axo-axonic
Synapse; Inhibition; Trigeminal motor nucleus; Parvocellular reticular nucleus; Peritrigeminal nucleus; Immunogold; Electron microscopy (Yang, H.-W. (749) 301)

Axo-axonic interaction
Nitric oxide; Visual cortex; Glutamate receptor; NMDA receptor; Retrograde messenger; LTP; Excitotoxicity; Immuno-electron microscopy (Aoki, C. (750) 25)

Axon
Low density lipoprotein receptor-related protein; Neuronal differentiation; α_2-Macroglobulin; Dendrite (Brown, M.D. (747) 313)

Diabetic neuropathy; Peripheral nerve regeneration; Silicone chamber; Schwann cell migration; Streptozocin (Tantuwaya, V.S. (759) 58)

Amyloid precursor protein; Focal cerebral ischaemia; Rat (Yam, P.S. (760) 150)

Cyclophilin A; Peptidyl-prolyl *cis-trans* isomerase; Molecular chaperone; Protein folding; Actin; Slow axonal transport; Data searching (Yuan, A. (771) 203)

Axonal ending
Medial pallidum; Motor thalamus; Central complex; Macaques; Three-dimensional reconstruction (Arecchi-Bouchhioua, P. (754) 311)

Axonal growth
Fetal spinal cord; Transplantation; Muscle reinnervation; Spinal neuron; Sciatic nerve; Choline acetyltransferase; Cholera toxin B (Katsuki, M. (771) 31)

Axonal injury
Neurofilament, 68 kDa; Heat-shock protein; c-*fos*; Acid fuchsin; Cell death; Glial fibrillary acidic protein; Astroglia; Head trauma (Dunn-Meynell, A.A. (761) 25)

Axonal morphometry
Cryopreservation; Culture; Mesencephalon; Dopaminergic neuron; Dendritic morphometry (Petite, D. (769) 1)

Axonal pruning
Alcohol; Ectopic neuron; Fetal alcohol syndrome; Neuronal generation; Neuronal migration (Miller, M.W. (766) 121)

Axonal regeneration
GAP-43; Axotomy; Injury; CNS; Cortical neuron (Elliott, E.J. (755) 221)

Axonal sprouting
Excitotoxicity; Spine density; Sholl analysis (Isokawa, M. (744) 339)

Axonal tracer
Cerebellum; Autonomic nervous system; Behavior; Blood pressure; Collateral (Ruggiero, D.A. (760) 272)

Axonal transport
Cell culture; RNA; Alzheimer's disease; Amyotrophic lateral sclerosis; Parkinsonism-dementia; Guam; Neurotoxin (Wakayama, I. (748) 237)

Dibutyryl cyclic AMP; Hippocampus; Cell culture; Organelle motion; Neurotransmitter (Hashimoto, Y. (755) 343)

Axon collateral
Parabrachial nucleus; Kölliker-Fuse nucleus; Thalamus; Spinal cord; Pain; Retrograde labeling; Rat (Li, J.-L. (745) 321)

Axon growth
Calcitonin gene-related peptide; Glia; Neurotrophin (Kawaja, M.D. (774) 77)

Axotomy
Gastrointestinal; Immediate early gene; Learning; Memory; Gene expression (Houpt, T.A. (747) 85)

c-Jun; Dorsal root ganglion; Immunoblotting (Kenney, A.M. (751) 90)

Nerve regeneration; Neurotrophic effect; Sensory test (Haglid, K.G. (753) 196)

Axonal regeneration; GAP-43; Injury; CNS; Cortical neuron (Elliott, E.J. (755) 221)

Extracellular signal regulated kinase 1; Rat; Vagus nerve; Hypoglossal nerve; Hybridization, in situ (Mishima, K. (766) 50)

Polyamine; Neurite regeneration; Structure–activity relationship; Cultured hippocampal neuron (Abe, K. (766) 281)

Rat; CGRP; Red nucleus; BDNF; In situ hybridization (Fukuoka, T. (767) 250)

Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Superior cervical ganglion; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Cell death; Ciliary neurotrophic factor; Cytokine; Neuronal cell culture; Spinal cord injury; Trophic factor (Rosenberg, L.J. (775) 209)

Aza-steroid
Dihydrotestosterone; 5α-Reductase; Birdsong; *Robustus archistriatalis*; Aromatase (Grisham, W. (750) 122)

Azide
Brain dialysis; Oxygen free radical; Methylpyridinium; NMDA channel; Nitric oxide synthase Parkinson's disease; Alzheimer's disease (Smith, T.S. (765) 183)

B

B6
129 substrain; Behavior; Embryonic stem cell; Null-mutant mouse; Genetic background (Montkowski, A. (762) 12)

***jun*-B**
c-*fos*; Aging; Circadian rhythm; Light (Benloucif, S. (747) 34)

Baboon
Cerebral ischemia; Oxidative metabolism; Infarction; Reperfusion; Neuroprotection; Stroke; Positron emission tomography (Touzani, O. (767) 17)

Baclofen
CGP36742; $GABA_B$ receptor antagonist; Morris water maze task; Scopolamine; Motor incoordination (Nakagawa, Y. (766) 101)

Bag cell
Calcium binding protein; Gastropod; Nervous system; Eye; Mollusc; Immunocytochemistry (Kerschbaum, H.H. (746) 133)

Balance
Electromyogram (EMG); Neuromuscular pattern; Postural muscle; Postural adjustment; Voluntary movement; Rapid arm flexion (Benvenuti, F. (761) 59)

Cerebellum; Purkinje cell; Mutant mouse; Sensorimotor learning; Equilibrium (Le Marec, N. (768) 310)

BALB/c
Athymic; Mice; Microglia; Lectin; Mac-1; Thymosin α1; Cortisol (Htain, W.-W. (755) 63)

Ba^{2+} modulation of etorphine effect
Ca^{2+} current; Dorsal root ganglion neuron; Dual opioid regulation of K^{2+} conductance; Inward K^+ conductance; Patch-clamp whole-cell recording (Fan, S.-f. (754) 303)

Barbiturate
Adult rat; Phrenic nerve; Recurrent laryngeal nerve; Coherence; High frequency oscillations; Medium frequency oscillations; Urethane (Kocsis, B. (745) 309)

nNOS; Cerebellum; Cytochrome *P*-450 (Thompson, C.M. (754) 142)

Baroreceptor activation
Nucleus of the solitary tract; Subfornical organ; Noradrenergic pathway; Phentolamine; Timolol; Microiontophoresis; Hemorrhage; Rat (Tanaka, J. (777) 237)

Baroreceptor afferent
Baroreceptor reflex; Cardiovascular; c-*fos* immunohistochemistry; Nucleus tractus solitarius (Dean, C. (758) 201)

Baroreceptor neuron
Mechanoreceptor; Ion channel gating; Nodose ganglion; Cytoskeletal actin (Cunningham, J.T. (757) 149)

Baroreceptor reflex
Baroreceptor afferent; Cardiovascular; c-*fos* immunohistochemistry; Nucleus tractus solitarius (Dean, C. (758) 201)

Baroreceptor reflex pathway
Commissural nucleus; Sympathetic nervous system; Vagus; Central cardiovascular reflex pathway (Ciriello, J. (749) 35)

Baroreceptor-related neuron
Extracellular recording; Insular cortex; Lateralisation; Rat (Zhang, Z. (760) 243)

Baroreflex sensitivity
Phenylephrine; Sodium nitroprusside; Lidocaine; Parasympathetic; Sympathetic (Saleh, T.M. (767) 201)

Barrel cortex
Gamma oscillation; EEG; Rat (Jones, M.S. (768) 167)

Barrel rotation
Nitric oxide; Glial cell; Fluorocitrate; Cerebellum; In vivo microdialysis; Arginine; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

Basal expression
Proenkephalin gene; Cell cycle; Protein kinase (Hildebrand, B. (759) 285)

Basal forebrain
Broca; Diagonal band; In vitro; Microwire; Rat; Sleep; Synaptic blockade; Thermoregulation; Thermosensitivity (Hays, T. (746) 52)

In vivo microdialysis; Choline acetyltransferase; Alzheimer's disease; Aging (Gibbs, R.B. (749) 143)

Prostaglandin; Sleep deprivation; Cerebrospinal fluid; Subarachnoid space; Stress; Brain temperature; Conscious rat (Ram, A. (751) 81)

Amygdala; Local cerebral glucose utilization; Ventral striatum (Lyons, D. (753) 69)

Opioid receptor; Calcium channel; Calcium current; Acutely dissociated neuron; Cholinergic (Soldo, B.L. (758) 118)

Urethane-anesthetized rat; Unit recording; Electroencephalogram; Low-voltage fast activity; Slow wave; Cortical arousal (Détári, L. (759) 112)

Whole-cell patch-clamp; Acutely dissociated neuron; Phosphorylation; Signal transduction (Jassar, B.S. (775) 127)

Basal ganglia
Glial cell line-derived neurotrophic factor; Parkinson's disease; Dopamine; Neurotrophic factor; Alzheimer's disease; Cholinergic function (Lapchak, P.A. (747) 92)

Movement disorder; Epilepsy; Motor system; Midbrain; Choreoathetosis; Paroxysmal dyskinesia; Neural activity (Gernert, M. (760) 102)

Parkinson's disease; Dopamine; γ-Aminobutyric acid (GABA) (Rohlfs, A. (761) 352)

Forebrain; *Lampetra fluviatilis*; Telencephalon; Fluorescent tracer; Immunohistochemistry (Pombal, M.A. (766) 249)

Kainate; Glutamate receptor; In situ hybridization (Wüllner, U. (768) 215)

Dopamine; Homovanillic acid; DOPAC; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug (Bowden, C. (769) 135)

Mechanical distortion; Kaolin-induced hydrocephalus; Acetylcholine; GABA; Dopamine; Immunohistochemistry (Tashiro, Y. (770) 45)

NMDA receptor; Huntington's disease; Excitotoxicity; Neuroprotection; Hydroxyl radical; Nitric oxide; Indazole (Bazzett, T. (775) 229)

AMPA-type glutamate receptor; Striatal GABAergic interneuron; Double immunocytochemistry; Immunofluorescence; Light microscopy (Kwok, K.H.H. (778) 43)

Basal ganglion
Mitochondrion; Parkinson's; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Complex I; NADPH-diaphorase; Substantia nigra (Ferrante, R.J. (753) 157)

Basement membrane
Blood vessel; Central nervous system; Extracellular matrix; Hippocampus; Limbic; Synapse; Tanycyte (Hagg, T. (764) 17)

Merosin; Synapse; Synaptogenesis; Hippocampus; Brain; Regeneration; Lesion; Rat; Rabbit; Pig (Tian, M. (764) 28)

Basic fibroblast growth factor
Allodynia; Hyperalgesia; Interleukin-1β; Tumor necrosis factor-α; Neuroimmune activation; Transforming growth factor-β (DeLeo, J.A. (759) 50)

Bax
Brain damage; Bcl-2; Apoptosis; Programmed cell death; Hypoxic-ischaemia; Alzheimer's disease (MacGibbon, G.A. (750) 223)

6-OHDA; Apoptosis; PC12; Parkinson's disease; p53 (Blum, D. (751) 139)

BCECF
Central chemoreceptor; Control of breathing; Dissociated cell culture; γ-Aminobutyric acid (GABA); Glutamate; Respiration (Sugama, S. (777) 95)

Bcl-2
Brain damage; Bax; Apoptosis; Programmed cell death; Hypoxic-ischaemia; Alzheimer's disease (MacGibbon, G.A. (750) 223)

bcl-x
NF-kB; Global ischemia; *bcl-x* gene promoter; Programmed cell death (Dixon, E.P. (776) 222)

***bcl-x* gene promoter**
NF-kB; *bcl-x*; Global ischemia; Programmed cell death (Dixon, E.P. (776) 222)

BDNF
Cerebral cortex; Glutamate; NMDA; NO; Neurotoxicity (Kume, T. (756) 200)

Rat; CGRP; Red nucleus; Axotomy; In situ hybridization (Fukuoka, T. (767) 250)

Beagle dog lifespan
Diffuse plaque; Plaque type; Isoaspartate β-amyloid; Aging; Alzheimer's; Animal model (Satou, T. (774) 35)

Bed nuclei of the stria terminalis
Conditioned emotional response; Corticotropin-releasing hormone; γ-Aminobutyric acid (GABA); Long-term modulation; Neuropeptide; Parabrachial nucleus (Petrovich, G.D. (763) 247)

Bed nucleus
p-Chlorophenylalanine; 5-Hydroxytryptamine; Caudate–putamen; Thalamus; Amygdala; Parabrachial nucleus; Nucleus of the solitary tract (Javed, A. (774) 94)

Bed nucleus of stria terminalis
Pituitary adenylate cyclase activating polypeptide immunoreactive axon terminal; Vasoactive intestinal polypeptide immunoreactive axon terminal; Corticotropin releasing factor immunoreactive neuron; Immunohistochemistry; Electron microscopy; Rat (Kozicz, T. (767) 109)

Bed nucleus of the stria terminalis
Medial preoptic area; Medial nucleus of the amygdala; Testosterone; Mating behavior; Fos (Swann, J.M. (750) 189)

Behavior
Monosialoganglioside; Amphetamine; Sensitization; Locomotor activity; Mice (Bellot, R.G. (747) 169)

Dynorphin; Substance P; Enkephalin; Scopolamine; Oxotremorine; Caudoputamen; Accumbens (Wang, J.Q. (748) 62)

Microdialysis; Formalin test; Restraint; Open field; Corticosterone (Aloisi, A.M. (748) 219)

Mycoplasma fermentans; Brain; Sickness; Body temperature; Prostaglandins; AIDS (Yirmiya, R. (749) 71)

Apolipoprotein E (apoE); Hippocampus; Memory; Mice; Immunocytochemistry; Alzheimer's disease (Oitzl, M.S. (752) 189)

C3H/HeJ; Cytokine; Food motivation; Interleukin-1; Lipopolysaccharide (Johnson, R.W. (752) 219)

Nitric oxide; Nitric oxide synthase inhibition; Stroke; Ischemia; Rat (Stagliano, N.E. (759) 32)

Cerebellum; Autonomic nervous system; Blood pressure; Collateral; Axonal tracer (Ruggiero, D.A. (760) 272)

129 substrain; B6; Embryonic stem cell; Null-mutant mouse; Genetic background (Montkowski, A. (762) 12)

Fixed interval schedule; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Dopamine; Nucleus accumbens; Dorsal striatum; Operant (Cory-Slechta, D.A. (764) 253)

Parasite; Analgesia; Predator induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induced analgesia; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Piriform cortex; Olfaction; Fast wave; Odor; Antimuscarinic (Zibrowski, E.M. (766) 39)

Global ischemia; Gerbil; Hippocampus; Neuroprotection; Zonisamide; Microdialysis; Glutamate; Histology (Owen, A.J. (770) 115)

Cadmium; Fentanyl; Morphine; Opiate; Place preference (Miller, D.K. (776) 162)

Methylphenidate; Dose response; Psychomotor stimulant; Motor activity; Chronobiology; Diurnal rhythm (Gaytan, O. (777) 1)

Behavioral experiment
Chorda tympani nerve; Monellin; Sucrose; Taste cell; Thaumatin (Tonosaki, K. (748) 234)

Behavioral recovery
Conditioning taste aversion; Free moving microdialysis; Neural transplantation; Glutamate; Gustatory cortex (Miranda, M.I. (759) 141)

Behavioral response
Epibatidine; Nicotinic receptor; Spinal cord; Cardiovascular response (Khan, I.M. (753) 269)

Behavioral sensitization
Cocaine; Drug abuse; Nitric oxide; Stereotypy; Stimulant (Haracz, J.L. (746) 183)

Amphetamine; Dopamine; Glutamate; γ-Aminobutyric acid; Calcium-channel blockers; Protein-synthesis inhibitor; Cortex (Karler, R. (757) 228)

Methamphetamine; Calmodulin; Hybridization, in situ; Radioimmunoassay; Dopamine (Shimizu, Y. (765) 247)

Behavioral test
Parkinson's disease; 6-Hydroxydopamine lesion; Transplantation; Rotational behavior (Rozas, G. (749) 188)

Behaviour
Cerebral ischemia; Ischemic preconditioning; CA1; Neuroprotection (Corbett, D. (760) 129)

***β*-endorphin**
G-protein; Mu opioid receptor; Morphine; Locus coeruleus; Low K_m; GTPase; GTPγS (Selley, D.E. (746) 10)

Benzodiazepine
Amygdala; Midazolam; Aversive learning; Post-training; Memory; Amnesia; Inhibitory avoidance (Dickinson-Anson, H. (752) 197)

Morphine; Midazolam; Opioid; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Brain region; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

Hypothalamus; Hippocampus; Theta; Learning; Water maze (Pan, W.-X. (764) 101)

Diazepam; Chronic treatment; Postnatal exposure; Learning; Memory; Anxiety; Cerebral glucose utilization (Schroeder, H. (766) 142)

$GABA_A$ receptor; Neurosteroid; Medulla; 3α-Hydroxy-5α-pregnan-20-one; Allopregnanolone; Female; Rat (Garrett, K.M. (768) 301)

Isoguvacine; Arterial blood pressure; Heart rate; Receptor autoradiography; Flumazenil; Medulla (Barron, K.W. (773) 53)

Hippocampal slice; Midazolam; Synaptic transmission; Intracellular recording; Rat (Sato, Y. (773) 98)

Morphine; Midazolam; Opioid; Met-enkephalin; Tolerance; Brain region; Spinal cord; Peripheral tissue; Central nervous system (Tejwani, G.A. (775) 119)

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7-Benzylidinenaltrexone (BNTX)
Antinociception; Naltriben (NTB); δ Opioid receptor; Spinal cord; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α (Hammond, D.L. (765) 177)

Bergmann glial cell
Ethanol exposure; Cerebellum; Development; Wistar rat (Pérez-Torrero, E. (746) 305)

Purkinje neuron; AMPA receptor; Portocaval anastomosis (Suárez, I. (778) 346)

Beta activity
Nerve growth factor; Electroencephalography; Delta activity; Choline acetyl transferase; Nucleus basalis of Meynert (Holschneider, D.P. (765) 228)

Beta amyloid protein
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Betaxolol
Neuroprotective agent; Retina; Ischemia (Osborne, N.N. (751) 113)

Serotonin-1A; β-Adrenoceptor; Autoreceptor; Electroencephalogram; Power spectral analysis; Rapid eye movement (REM) (Seifritz, E. (759) 84)

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Learned bilateral blinking; Blink onset; Side superiority; Temporal bilateral coordination; Corpus callosum; Split-brain; Cat (Spidalieri, G. (770) 30)

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Blood–nerve barrier; Perineurium; Inflammation; Inflammatory mediator; Protamine; Frog; Amphibian (Todd, B.A. (776) 214)

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Binding
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Binding enhancer
Brain damage; Neonatal; Neuroprotection; PD 81,273; Perinatal asphyxia (Halle, J.N. (759) 309)

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Pontine reticular formation; Potassium current; Intracellular staining; Carbachol; REM sleep (Núñez, A. (754) 1)

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Birdsong
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Blink onset
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Learned bilateral blinking; Side superiority; Bilateral coupling; Temporal bilateral coordination; Corpus callosum; Split-brain; Cat (Spidalieri, G. (770) 30)

Blink suppression
Blink; Lateral geniculate nucleus; Thalamic reticular nucleus (Lo, F.-S. (767) 176)

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Blood–inner ear barrier
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Blood-nerve barrier
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Bombesin receptor subtype 3
Bombesin; Neuromedin B receptor; Genomic organization; Tissue distribution (Ohki-Hamazaki, H. (762) 165)

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Muscarinic acetylcholine receptor; Prothoracicotropic hormone; Neuropeptide secreting neuron; Silkworm (Aizono, Y. (763) 131)

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Borna disease virus
p24; Nested RT-PCR; Brain; Olfactory bulb; Schizophrenia; Mood disorder (Haga, S. (770) 307)

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MPTP; Oxidative stress; Glutathione; Reactive oxygen species; Brain slice; Neurotoxicity; Complex I (Sriram, K. (749) 44)

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Rat; Brain water content; Brain edema; Brain ischemia; Cerebral blood flow; CBF (Schwab, M. (749) 82)

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Positron emission tomography; Arachidonate; Blood flow; Phospholipid metabolism; Monkey; Rat (Chang, M.C.J. (755) 74)

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Adenosine receptor; Adenylyl cyclase; Dopamine; Tyrosine hydroxylase (Choksi, N.Y. (761) 151)

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Alzheimer's disease; Protein kinase C; Calcium; Platelet; Leukocyte (Lanius, R.A. (764) 75)

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Borna disease virus; p24; Nested RT-PCR; Olfactory bulb; Schizophrenia; Mood disorder (Haga, S. (770) 307)

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Brain angiotensin system
[^{125}I]Sar^1–Ang II binding; [^{125}I]CGP 42112 binding; AT_1 receptor; AT_2 receptor; Immunocytochemistry (Jöhren, O. (757) 218)

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Bax; Bcl-2; Apoptosis; Programmed cell death; Hypoxic-ischaemia; Alzheimer's disease (MacGibbon, G.A. (750) 223)

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Binding enhancer; Neonatal; Neuroprotection; PD 81,273; Perinatal asphyxia (Halle, J.N. (759) 309)

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Nerve growth factor; Dorsal root ganglion; Spinal cord; Peripheral inflammation; Pain; Immunohistochemistry (Cho, H.-J. (764) 269)

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Brain dialysis
Oxygen free radical; Methylpyridinium; Azide; NMDA channel; Nitric oxide synthase Parkinson's disease; Alzheimer's disease (Smith, T.S. (765) 183)

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Blood–brain barrier; Cathepsin G; Cerebral capillary; Elastase; Intracerebral hemorrhage; Neutral protease; Plasmin (Armao, D. (767) 259)

P/Q-type Ca^{2+} channel; ω-Agatoxin IVA; Focal ischemia; Infarct size; Neuroprotection (Asakura, K. (776) 140)

Brain endothelial cell
Ultrastructure; Transferrin; Colloidal gold; Blood–brain barrier; Transcytosis (Van Gelder, W. (746) 105)

Brain endothelium
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Brain infarction
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Brain injury
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Head trauma; Fluid percussion; Neurological deficit; Neuroprotection; Riluzole (Wahl, F. (756) 247)

Brain ischemia; Cortical neuron; Equilin; Estradiol; Free radical; Glutamate; Lipid peroxidation (Regan, R.F. (764) 133)

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Brain interstitial fluid
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Brain ischemia
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Rat; Brain; Brain water content; Brain edema; Cerebral blood flow; CBF (Schwab, M. (749) 82)

Brain injury; Cortical neuron; Equilin; Estradiol; Free radical; Glutamate; Lipid peroxidation (Regan, R.F. (764) 133)

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Brain metabolism
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Brain microvasculature
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Glutathione; Intracellular Ca^{2+}; Kainate; Oxidative stress (Oyama, Y. (760) 277)

Brain receptor
[D-Pen^2,D-Pen^5]enkephalin; [D-Ala^2,Glu^4]deltorphin II; δ_1-, δ_2-Opioid receptor agonist; Analgesia; Tolerance (Zhao, G.-M. (745) 243)

Brain region
U-50,488H; κ-Opioid receptor agonist; Tolerance; [^{3}H]MK-801 binding; Spinal cord; Rat (Bhargava, H.N. (749) 347)

Morphine; L-Arginine; N^G-nitro-L-arginine; Antinociception; Nitric oxide synthase; Serum morphine concentration; RIA (Bhargava, H.N. (749) 351)

Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

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Calcium; Current–voltage relationship; Magnesium; *N*-methyl-D-aspartic acid; Surface charge; Suprachiasmatic nucleus; Whole-cell current (Alberi, S. (745) 55)

MPTP; Oxidative stress; Glutathione; Reactive oxygen species; Brain; Neurotoxicity; Complex I (Sriram, K. (749) 44)

Cell death; Auditory system; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Deafferentation (Hyson, R.L. (749) 61)

c-fos; hsp70; FBP (fructose-1,6-bisphosphate); Neonate; Hypoxia (Hasegawa, K. (750) 1)

Glutamate; In vitro ischemia; Na^+/K^+ ATP_{ase}; Na^+/glutamate transporter; Postischemic glutamate release potentiation (Calò, G. (751) 300)

Newborn; Ornithine decarboxylase; Free radicals; Malonaldehyde (Saito, K. (763) 232)

Subthalamic nucleus; Metabotropic glutamate receptor; (*S,R*)-Dihydroxyphenylglycine; (+)-α-Methyl-4-carboxyphenylglycine; Excitation (Abbott, A. (766) 162)

Suprachiasmatic nucleus; Circadian rhythm; Whole-cell patch-clamp; H-current; Spontaneous firing; Spike afterhyperpolarization (De Jeu, M.T.G. (767) 72)

Vasopressin; Amygdala; Central amygdaloid nucleus; Neuron activity (Lu, Y.-F. (768) 266)

Calcium current; G protein; Lateral septum; Metabotropic glutamate receptor; Non-selective channel; Sodium current (Raggenbass, M. (776) 75)

Temperature; Extracellular recording; Hypothalamus (Burgoon, P.W. (777) 31)

Brainstem
Nitrinergic transmission; Astrocyte; Immunocytochemistry; Nitric oxide; Somatosensory (Kharazia, V.N. (744) 151)

Blood pressure; Excitatory amino acid; Microdialysis; Exercise; Caudal ventrolateral medulla (Hand, G.A. (748) 211)

Superior colliculus; Afferent connections; Topographic projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (755) 279)

Postnatal development; Respiratory control; Sneeze reflex; Trigeminal afferent; Transsynaptic labeling; Fos-like immunohistochemistry; Cat (Masmoudi, K. (757) 102)

Descending system; Lumbosacral reflex; Continence; Defecation (Holmes, G.M. (759) 197)

Peptide YY; Neuropeptide Y; Receptor; Pancreas; Limbic; Hypothalamus; Vagus; Rat (Whitcomb, D.C. (760) 137)

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Power spectrum; Carbachol; Nucleus reticularis pontis oralis; Acetylcholine; Electroencephalography (EEG) (Garzón, M. (766) 266)

Sphenopalatine ganglion; Parasympathetic pathway; Retrograde tracing; Nitric oxide synthase; Choline acetyltransferase (Zhu, B.-S. (769) 168)

Neurofilament; Immunocytochemistry; Reticular formation; Cat; Aging (Zhang, J.-H. (769) 196)

Dorsal rhizotomy; Gracile nucleus; Sprouting; Deafferentation (Sengelaub, D.R. (769) 256)

Nucleus X; Somatosensory system; Medulla oblongata; Inferior colliculus; Thalamus; Cerebellum; Rat (Li, H. (774) 200)

In vitro; Newborn rat; μ-Opioid receptor; δ-Opioid receptor; κ-Opioid receptor; Respiration (Takita, K. (778) 233)

Brainstem mapping
Somatosensory plasticity; Nerve injury; Primate cuneate nucleus; Cortex; Denervation (Xu, J. (774) 211)

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Brain structure
Magnesium-deficient rat; Magnesium brain content (Poenaru, S. (769) 329)

Brain temperature
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Sleep; REM sleep; Prolactin; Pituitary (Obál Jr., F. (755) 130)

N-Methyl-D-aspartate; *N*-ω-Nitro-L-arginine; Indomethacin; Rat (Hara, S. (756) 301)

Endotoxin; Tumor necrosis factor; Sleep; Electroencephalographic spectral analysis; Rat (Lancel, M. (770) 184)

Brain tumor
Sialyltransferase; Glioma; Glycoprotein; Sialic acid (Yamamoto, H. (755) 175)

Ion homeostasis; Brain microvasculature; Drug delivery; Drug development; Alternative testing; Cell culture; Neurodegenerative disorder (Stanness, K.A. (771) 329)

Brain vasculature
Mouse; Cerebral ischemia; Neuronal death; Laser Doppler flowmetry; Hypothermia (Yang, G. (752) 209)

Brain water content
Rat; Brain; Brain edema; Brain ischemia; Cerebral blood flow; CBF (Schwab, M. (749) 82)

Brattleboro rat
Hypothalamus; Neurohypophysis; Oxytocin; Immunocytochemistry (Ang, C.W. (765) 13)

BrdU
Carcinus maenas; Crustacean; Adult neurogenesis; Brain; Olfactory pathway; 5-Bromo-2′-deoxyuridine; Neuron number (Schmidt, M. (762) 131)

Breathing
Brain; Metabolism; Respiration; Fetus (Koos, B.J. (778) 439)

Breathing movement
Fetus; Hypoxia; Fos immunohistochemistry; Parabrachial neuron (Breen, S. (748) 107)

Bright light
Caffeine; Melatonin; Temperature; Adenosine; Circadian rhythm; Sleep deprivation (Wright Jr., K.P. (747) 78)

Brn-2
POU transcription factor; Developing neocortex; Postmitotic cell; NCAM-H; Gene expression (Hagino-Yamagishi, K. (752) 261)

Broca
Basal forebrain; Diagonal band; In vitro; Microwire; Rat; Sleep; Synaptic blockade; Thermoregulation; Thermosensitivity (Hays, T. (746) 52)

Bromocriptine
3-Acetylpyridine; Cerebellum; cGMP; ATP; Motor coordination; Pramipexole (Sethy, V.H. (754) 181)

Bromodeoxyuridine
C6 glioma cell; Calcein-am; Dystrophic retina; Ethidium homodimer; Gliastatin 2; Lactate dehydrogenase; Microglial cell; Müller cell; Retinal glia (Rosales, A.A. (748) 195)

5-Bromo-2′-deoxyuridine
Carcinus maenas; Crustacean; Adult neurogenesis; Brain; Olfactory pathway; BrdU; Neuron number (Schmidt, M. (762) 131)

3-Bromo-7-nitroindazole
Cerebral ischaemia; LY231617; Aminoguanidine; Nitric oxide (NO); Hippocampus; Mongolian gerbil (O' Neill, M.J. (760) 170)

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Forced swimming test; Fisher 344 rat; Lewis rat; Spontaneously hypertensive rat; Wistar-Kyoto rat; Corticotropin-releasing factor; Depression (Lahmame, A. (750) 285)

Bulbospinal axon
Dopamine β-hydroxylase; Gamma-aminobutyric acid; Coexistence; Immunofluorescence; Confocal microscopy (Patel, R. (749) 164)

Bumetanide-sensitive Na-K-2Cl cotransporter
Stria vascularis; Marginal cell; Fibrocyte; Spiral ligament (Goto, S. (765) 324)

α-Bungarotoxin
Carotid body; Nicotinic receptor; Nicotine; Catecholamine (Obeso, A. (754) 298)

α-Bungarotoxin
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Buprenorphine
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Burst discharge
Spontaneous activity; Time-series analysis; Mitral/tufted cell; Olfactory bulb; Cat (Motokizawa, F. (763) 285)

Bursting activity
Interspike interval; Autocorrelogram; Discharge pattern analysis; Extracellular recording (Martinson, J. (750) 129)

Bursting cell
Subiculum; Intracellular recording; Regular firing cell; $GABA_A$; $GABA_B$; NMDA; AMPA; 5-HT (Behr, J. (773) 217)

1-Butanol
c-Jun; Acetic acid; Olfactory bulb; Periglomerular cell; Mitral cell; Tufted cell; Granule cell (Baba, K. (774) 142)

Butorphanol
Glutamate; Aspartate; Locus coeruleus; Morphine; Microdialysis; Nor-binaltorphimine; U-69,593 (Hoshi, K. (753) 63)

BW 373U86
δ Opioid; Electroencephalography; Hippocampus; Naltrindole; θ Activity (Marrosu, F. (776) 24)

C

^{13}C
Nuclear magnetic resonance; Brain; Glucose; Compartmentation; Neuron; Astrocyte; Tricarboxylic acid cycle (TCA) cycle (Aureli, T. (765) 218)

CA1
Cytokine; Field potential; Short-term potentiation; Post-tetanic potentiation; IL-6 receptor antibody (Li, A.-J. (748) 30)

Acetylcholine; Atropine; Hippocampus; LTP; Medial septal area; Current source density analysis; Ventral hippocampal commissure (Markevich, V. (754) 95)

Cerebral ischemia; Ischemic preconditioning; Behaviour; Neuroprotection (Corbett, D. (760) 129)

Sodium; Hippocampus; Anoxia; Tetrodotoxin; Amiloride (Fung, M.-L. (762) 97)

Transient ischemia; Gerbil; Delayed neuronal death (Antonawich, F.J. (764) 249)

Cerebral ischemia; Delayed neuronal death; Hypothermia; Neuroprotection; Astroglia; Microglia; Immunohistochemistry (Nakajima, Y. (765) 113)

Synaptic transmission; Long-term potentiation; Melatonin; *N*-Methyl-D-aspartate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Hippocampus (Collins, D.R. (767) 162)

Hippocampus; Temperature; Seizure; Potentiation; Hypoxia (Watson, P.L. (775) 134)

Estradiol; LTP; Synaptic plasticity; Memory; Stratum radiatum; Freely moving rats (Córdoba Montoya, D.A. (778) 430)

CA2
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CA3
CA2; Subiculum; Presubiculum; Psychosis; Pyramidal; Nonpyramidal; Neuroleptics (Benes, F.M. (755) 121)

C6-10A
TDN-345; Astrocytoma; Nerve growth factor; Neurotrophic factor; Induction (Fukumoto, H. (774) 87)

$[Ca^{2+}]_i$
Apolipoprotein E; Synthetic peptide; Endocytosis; Receptor associated protein; Cytoplasmic calcium; Neuron (Wang, X.-s. (778) 6)

Ca^{2+}-activated K^+ channel
Hypercapnia; Hypoxia; O_2 disappearance rate; Tissue PO_2 (Osanai, S. (747) 324)

Apamin; Brain damage; Cerebellum; Seizure; Infusion (Mourre, C. (778) 405)

Ca^{2+}-ATPase
Calcium homeostasis; Cell culture; Electron microscopy; Endoplasmic reticulum; Protein synthesis; Ribosomal aggregation (Doutheil, J. (775) 43)

Ca^{2+}-binding protein
Phosphorylation; 2-D polyacrylamide gel electrophoresis; Peptide mapping; Facilitation; Learning; Memory; Intermediate filament protein (Homayouni, R. (750) 87)

Ca^{2+}/calmodulin-dependent protein kinase
Long-term potentiation; Hippocampus; Western blot; Immunohistochemistry (Tokuda, M. (755) 162)

Ca^{2+}/calmodulin-dependent protein kinase II
Protein kinase C; Neurite outgrowth; Isoforms, α and β; Neuroblastoma; Protein kinase inhibitor (Nomura, T. (766) 129)

Ca^{2+} channel
Medicinal leech; Intracellular Ca^{2+}; Extracellular K^+; Polyvalent cation; Menthol (Dierkes, P.W. (746) 285)

Ischemia; Hippocampus; Confocal microscopy; Electrophysiology; Cell death (Small, D.L. (753) 209)

Activin; Neurotrophic effect; Ca^{2+} influx; Protein synthesis; Hippocampal neuron (Iwahori, Y. (760) 52)

N-type Ca^{2+} channel
μ and δ opioid receptor; High threshold Ba^{2+} current; F-11 cell (Nah, S.-Y. (766) 66)

Spermine; Calcium channel; Field potential; Mathematical model; Neurotransmission (Eterović, V.A. (772) 191)

Cachexia
Anorexia; Brain; Cytokine; Food intake; Interleukin-1β (Finck, B.N. (761) 333)

Ca^{2+} current
Ba^{2+} modulation of etorphine effect; Dorsal root ganglion neuron; Dual opioid regulation of K^{2+} conductance; Inward K^+ conductance; Patch-clamp whole-cell recording (Fan, S.-f. (754) 303)

Ca^{2+}-dependent
Bovine brain microvessel endothelial cells (BBMECs); E-cadherin; Cell adhesion molecules; Decapeptide; Immunofluorescence; Cell-cell adhesion (Pal, D. (747) 103)

Cadmium
Behavior; Fentanyl; Morphine; Opiate; Place preference (Miller, D.K. (776) 162)

Caffeine
Bright light; Melatonin; Temperature; Adenosine; Circadian rhythm; Sleep deprivation (Wright Jr., K.P. (747) 78)

Kindling; Seizure; 2-Chloroadenosine; Amygdala; Hippocampus (Pourgholami, M.H. (751) 259)

Cerebral blood flow; Hypercapnia; Nitric oxide; Adenosine; Cortical arousal; Electrocorticogram (Estevez, A.Y. (758) 1)

Apoptosis; Cell death; Cerebellar granule neuron; Intracellular calcium; Mastoparan; Cholera toxin; Thapsigargin (Lin, S.-Z. (771) 184)

Amygdala; Kindling; Seizure; 2-Chloroadenosine; Adenosine A_1 receptor (Pourgholami, M.H. (775) 37)

Ca^{2+} homeostasis
NGF; Ethanol toxicity; Septohippocampal neuron (Webb, B. (778) 354)

Ca^{2+} influx
Activin; Neurotrophic effect; Ca^{2+} channel; Protein synthesis; Hippocampal neuron (Iwahori, Y. (760) 52)

Calbindin
Immediate-early gene; Parvalbumin; Epilepsy; Neocortex; Rat (Mihaly, A. (761) 135)

Double labeling; Parvalbumin; Tyrosine hydroxylase; γ-Aminobutyric acid; Colocalization (Völgyi, B. (763) 79)

Potassium channel; Nonpyramidal cell; Interneuron; Channel rings; Parallel fiber; Immunofluorescence; Parvalbumin; Ultrastructural localization (Sekirnjak, C. (766) 173)

Dopamine D_1 receptor; Dopamine D_2 receptor; c-*fos*; A-77636; Quinpirole; Matrix; Striosome; Immediate early gene (Wirtshafter, D. (771) 271)

Calretinin; Parvalbumin; Nicotine; α-Bungarotoxin; Neurotransmitter (Araki, C.M. (774) 250)

Calbindin D-28k
Calretinin; Neurocalcin; Parvalbumin; Olfactory system (Crespo, C. (745) 293)

S100; Parvalbumin; Calretinin; Trigeminal ganglion; Dorsal root ganglion (Ichikawa, H. (748) 253)

GABA; Interneuron; VIP; Calretinin; Co-localization (Kubota, Y. (752) 175)

Jugular ganglion; Immunohistochemistry; Nodose ganglion; Parvalbumin; Petrosal ganglion; S100; Vagal afferent neuron (Ichikawa, H. (768) 349)

Calcein-am
Bromodeoxyuridine; C6 glioma cell; Dystrophic retina; Ethidium homodimer; Gliastatin 2; Lactate dehydrogenase; Microglial cell; Müller cell; Retinal glia (Rosales, A.A. (748) 195)

Calcineurin
Protein phosphatase; Cortical neuron; Glutamatergic synapse; Calyculin; Microcystin; Cyclosporine A; FK506 (Thomas, G.D. (749) 101)

Calcitonin
Brain; Subcommissural organ; Reissner's fiber; Immunocytochemistry; Catfish *Clarias batrachus*; Frog *Rana tigrina*; Lizard *Caloter versicolor* (Subhedar, N. (751) 13)

Calcitonin gene-related peptide
Glia; Neurotrophin; Axon growth (Kawaja, M.D. (774) 77)

Calcitonin receptor-like receptor; In situ hybridization; Receptor (Flühmann, B. (774) 184)

Push–pull perfusion; Vagus nerve; Somatostatin; Substance P; Neurotensin; Cholecystokinin (Saleh, T.M. (778) 56)

Calcitonin receptor-like receptor
Calcitonin gene-related peptide; In situ hybridization; Receptor (Flühmann, B. (774) 184)

Calcium
Calcium receptor; Calcium sensing receptor; Parathyroid; G protein coupled receptor; Receptor localization; Subfornical organ; Fluid homeostasis; Ion homeostasis (Rogers, K.V. (744) 47)

Brain slice; Current–voltage relationship; Magnesium; *N*-methyl-D-aspartic acid; Surface charge; Suprachiasmatic nucleus; Whole-cell current (Alberi, S. (745) 55)

Aging; Alzheimer's disease; Cognition; Glucocorticoid; Memory; Morphometry; Stress (Dachir, S. (748) 175)

Fear; Conditioning; Hippocampus; Thalamus; Glutamate; Diacylgylcerol (DAG) (Shors, T.J. (750) 293)

Cytoskeleton; Tau protein; Okadaic acid; Phosphatase 1/2A; Cortical neuron; Cerebellar granule cell (Adamec, E. (757) 93)

Thrombin receptor; Rat hippocampal neuron; Thrombin receptor agonist peptide (TRAP); cAMP (Yang, Y. (761) 11)

NMDA; Glutamate receptor; Steroid; Estradiol; Excitotoxicity; Neuroprotection (Weaver Jr., C.E. (761) 338)

Calcium activated neutral proteinase; Alzheimer's disease; Neurofibrillary tangle; Calpain antibody; Cytoskeleton (Grynspan, F. (763) 145)

Alzheimer's disease; Protein kinase C; Platelet; Brain; Leukocyte (Lanius, R.A. (764) 75)

Serotonin; Dorsal root ganglion (Todorovic, S.M. (765) 291)

Hypoxia; Penumbra; Calpain inhibitor; Hippocampus; Neuroprotection (Chen, Z.-F. (769) 188)

Glycine receptor; $GABA_A$ receptor; Bicuculline; Strychnine; Protein kinase A; Protein kinase C; G protein (Tapia, J.C. (769) 203)

Cloned octopamine/tyramine receptor; *Drosophila melanogaster*; *Xenopus* oocyte expression; Antisense oligonucleotide; G-protein coupling (Reale, V. (769) 309)

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Optic nerve; Spinal cord; Sciatic nerve; Immunohistochemistry; Myelin; Node of Ranvier (Steffensen, I. (776) 1)

Brain; Calcyclin; Astrocyte; Neuronal migration pathway; Rat (Yamashita, N. (778) 388)

Calcium activated neutral proteinase
Alzheimer's disease; Neurofibrillary tangle; Calcium; Calpain antibody; Cytoskeleton (Grynspan, F. (763) 145)

Calcium antagonist
PCA50938; Nimodipine; Flunarizine; Cerebral ischemia; Gerbil; Neuroprotection (Zapater, P. (772) 57)

Strychnine; Verapamil; Flunarizine; Calcium channel; Epilepsy (Straub, H. (773) 173)

Calcium binding proteins
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Intracellular calcium homeostasis; Plasma membrane; Calcium channel; Immunolocalization; Intracellular signaling (Stauffer, T.P. (748) 21)

N-Methyl-D-aspartate receptor; AMPA; Immunocytochemistry; Primate (Huntley, G.W. (749) 245)

γ-Aminobutyric acid (GABA); Neuropeptide; Immunohistochemistry; Hippocampus; Rat (Nomura, T. (751) 64)

Stereology; Neuropeptide; Immunohistochemistry; Hippocampus; Rat (Nomura, T. (764) 197)

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Meriones unguiculatus; Genetic epilepsy; Limbic seizure; Disinhibition; Ammonshorn (Scotti, A.L. (760) 109)

Calcium / calmodulin-dependent protein kinase II
Amygdala; Inhibitory avoidance task; Excitatory synapse; KN-6 (Tan, S.-E. (748) 227)

Antinociception; Cold water swimming stress; Calcium channel; Calmodulin (Suh, H.W. (767) 144)

Calcium channel
Conopeptide; Focal ischemia; Neuroprotection; Calcium channel blocker (Bowersox, S.S. (747) 343)

Intracellular calcium homeostasis; Plasma membrane; Calcium-binding protein; Immunolocalization; Intracellular signaling (Stauffer, T.P. (748) 21)

Hippocampus; In vitro; CA1 region; LTP; NMDA (Pananceau, M. (752) 255)

Cultured astrocyte; 5-HT_{2A}; Intracellular calcium; sK_{Ca} channel (Jalonen, T.O. (758) 69)

Opioid receptor; Calcium current; Basal forebrain; Acutely dissociated neuron; Cholinergic (Soldo, B.L. (758) 118)

Opioid receptor; Transmitter release; Dopamine; Neuroblastoma; Pertussis toxin (Keren, O. (764) 277)

Antinociception; Cold water swimming stress; Calmodulin; Calcium / calmodulin dependent protein kinase II (Suh, H.W. (767) 144)

SN56 neuronal cell line; Tacrine; Calcium imaging; Intracellular calcium; Acetylcholinesterase; Neurons in culture (Doležal, V. (769) 219)

Spermine; N-type Ca^{2+} channel; Field potential; Mathematical model; Neurotransmission (Eterović, V.A. (772) 191)

Strychnine; Verapamil; Flunarizine; Epilepsy; Calcium antagonist (Straub, H. (773) 173)

Calcium-induced calcium release; Presynaptic bouton; Purkinje neuron; Synapse; Endoplasmic reticulum (Ouyang, Y. (775) 52)

Angiotensin II; *c-fos*; Drinking behavior; Forebrain; Nifedipine (Zhu, B. (778) 206)

Calcium channel blockers
Conopeptide; Focal ischemia; Calcium channel; Neuroprotection (Bowersox, S.S. (747) 343)

Amphetamine; Dopamine; Glutamate; γ-Aminobutyric acid; Protein-synthesis inhibitor; Cortex; Behavioral sensitization (Karler, R. (757) 228)

Calcium channel type
Aging; Hippocampus; Field potential; Synaptic transmission; Conotoxin; Agatoxin (Hall, S.C. (745) 339)

Calcium current
β-Amyloid peptide; hNT cell; Ionophore; Patch clamp; Differentiated NT2 cell; Alzheimer's disease (Sanderson, K.L. (744) 7)

Rat; Cerebral cortical neuron; Cell culture; ω-Agatoxin-TK; Voltage-clamp; Synaptic transmission (Teramoto, T. (756) 225)

Opioid receptor; Calcium channel; Basal forebrain; Acutely dissociated neuron; Cholinergic (Soldo, B.L. (758) 118)

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Heavy metal; Mammalian cell line; Neurotoxicity; Patch clamp; Whole cell (Hegg, C.C. (772) 63)

Brain slice; G protein; Lateral septum; Metabotropic glutamate receptor; Non-selective channel; Sodium current (Raggenbass, M. (776) 75)

Calcium homeostasis
Ca^{2+}-ATPase; Cell culture; Electron microscopy; Endoplasmic reticulum; Protein synthesis; Ribosomal aggregation (Doutheil, J. (775) 43)

β-Amyloid peptide; β-Amyloid fibril; Calcium ion channel; Calcium ion concentration; Decoy peptide; hNT neuron; Non-NMDA channel (Blanchard, B.J. (776) 40)

Calcium imaging
SN56 neuronal cell line; Tacrine; Calcium channels; Intracellular calcium; Acetylcholinesterase; Neurons in culture (Doležal, V. (769) 219)

Calcium-induced calcium release
Presynaptic bouton; Calcium channel; Purkinje neuron; Synapse; Endoplasmic reticulum (Ouyang, Y. (775) 52)

Calcium ion
Ischemia; Glucose deprivation; Neural activity; Hippocampus; Developing brain (Nabetani, M. (769) 158)

Calcium ion channel
Cytoplasmic calcium ($[Ca^{2+}]_i$); Synaptic transmission; Potassium ion channel; Oscillation; Glutamate receptor; GABA receptor; Neuronal network (Wang, X.-s. (767) 239)

β-Amyloid peptide; β-Amyloid fibril; Calcium homeostasis; Calcium ion concentration; Decoy peptide; hNT neuron; Non-NMDA channel (Blanchard, B.J. (776) 40)

Calcium ion channel antagonist
Fura-2; Cytosolic calcium; Protonophore; Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone; Calcium ion removal (Sato, M. (768) 37)

Calcium ion concentration
β-Amyloid peptide; β-Amyloid fibril; Calcium ion channel; Calcium homeostasis; Decoy peptide; hNT neuron; Non-NMDA channel (Blanchard, B.J. (776) 40)

Calcium ion removal
Fura-2; Cytosolic calcium; Calcium ion channel antagonist; Protonophore; Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone (Sato, M. (768) 37)

Calcium oscillation
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Calcium receptor
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Calcium release
Signal transduction; Endoplasmic reticulum; Aequorin luminescence; Pressure injection (Vallet, A.M. (768) 91)

Calcium sensing receptor
Calcium; Calcium receptor; Parathyroid; G protein coupled receptor; Receptor localization; Subfornical organ; Fluid homeostasis; Ion homeostasis (Rogers, K.V. (744) 47)

Calcyclin
Brain; Calcium; Astrocyte; Neuronal migration pathway; Rat (Yamashita, N. (778) 388)

Callosal neuron
Callosotomy; Retrograde double labeling; Fast Blue (FB); Diamidino Yellow · 2HCl (DY · 2HCl); Rat (Orihara, Y.I. (778) 393)

Callosotomy
Callosal neuron; Retrograde double labeling; Fast Blue (FB); Diamidino Yellow · 2HCl (DY · 2HCl); Rat (Orihara, Y.I. (778) 393)

Calmodulin
Postsynaptic protein; Protein kinase C substrate; Synaptic plasticity; Hippocampus; Learning and memory (Chen, S.-J. (749) 181)

Amantadine; Inhibition; Phosphodiesterase; Parkinson's disease (Kakkar, R. (749) 290)

Apis mellifera; Actin; Brain; MARCKS; Protein kinase C (Müller, U. (757) 24)

Methamphetamine; Behavioral sensitization; Hybridization, in situ; Radioimmunoassay; Dopamine (Shimizu, Y. (765) 247)

Antinociception; Cold water swimming stress; Calcium channel; Calcium/calmodulin dependent protein kinase II (Suh, H.W. (767) 144)

Caloric restriction
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Calpain
Proteolysis; Cytoskeleton; Middle cerebral artery; Immunocytochemistry; Image-analysis; Rat (Morimoto, T. (746) 43)

Corticosteroid; Inhibitor; Spinal cord; Neurofilament; Myelin basic protein; Neuroprotection (Banik, N.L. (748) 205)

Expression; Spinal cord; Trauma; Neurofilament protein; Proteinase (Banik, N.L. (752) 301)

Calpain antibody
Calcium activated neutral proteinase; Alzheimer's disease; Neurofibrillary tangle; Calcium; Cytoskeleton (Grynspan, F. (763) 145)

Calpain inhibitor
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Calphostin C
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S100; Parvalbumin; Calbindin D-28k; Trigeminal ganglion; Dorsal root ganglion (Ichikawa, H. (748) 253)

GABA; Interneuron; VIP; Calbindin D28k; Co-localization (Kubota, Y. (752) 175)

Ruffini ending; Mechanoreceptor; Periodontal ligament; Rat (Ochi, K. (769) 183)

Immunohistochemistry; Incisor; Parvalbumin; Periodontal ligament; Ruffini-like ending; Trigeminal ganglion (Ichikawa, H. (770) 294)

Calbindin; Parvalbumin; Nicotine; α-Bungarotoxin; Neurotransmitter (Araki, C.M. (774) 250)

Calyculin
Protein phosphatase; Calcineurin; Cortical neuron; Glutamatergic synapse; Microcystin; Cyclosporine A; FK506 (Thomas, G.D. (749) 101)

Cancer
P-glycoprotein; Neurotoxicity; Methamphetamine; Methylenedioxymethamphetamine; Blood–brain barrier; Dopamine; Striatum; Nucleus accumbens (Mann, H. (769) 340)

CA1 neuron
Colchicine; Forebrain ischemia; Hippocampus; Delayed neuronal death; Rat (Kimura, M. (774) 229)

Cannabinoid
Leech; Central nervous system; Anandamide; Nitric oxide (Stefano, G.B. (753) 219)

Glucose metabolism; cAMP; C6 glioma cell (Sánchez, C. (767) 64)

Ca^{2+} oscillation
Confocal laser microscopy; Glutamate; Neurotrophic factor; Neuronal plasticity (Sakai, N. (778) 318)

Capillary zone electrophoresis
Brain microdialysis; Glutamate; Feeding; Rat (Rada, P. (768) 338)

Capsaicin
Cardiorespiratory reflex; Chemosensitive nerve ending; Nociceptive nerve ending; Skeletal muscle afferent (Kenagy, J. (744) 175)

CRF antagonist; Fos; Paraventricular nucleus of the hypothalamus; Abdominal surgery; Nucleus tractus solitarii; Supraoptic nucleus (Bonaz, B. (748) 12)

Dorsal root ganglion; Bradykinin; Prostaglandin E_2; Pain sensory cell; C-fiber (Noda, K. (751) 348)

Analgesia; C-fiber; Galanin; Galanin message associated peptide; Pain; Resiniferatoxin (Xu, X.-J. (752) 52)

Hypothalamus; Mamillary nuclei; Capsaicin-sensitive neuron; Vascular permeability; Evans Blue concentration (Tolochko, Z.S. (752) 324)

Antinociception; Substance P; *N*-methyl-D-aspartate; Naloxone; Opioid; Intrathecal administration; Spinal cord (Masuyama, T. (759) 241)

Irritant; Spice; Black pepper; Chemosensitivity; Proton; Synergy; Antagonist; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

Capsaicin-sensitive neuron
Hypothalamus; Mamillary nuclei; Capsaicin; Vascular permeability; Evans Blue concentration (Tolochko, Z.S. (752) 324)

CA1 pyramidal cell
Plasmin; Excitatory postsynaptic current; Inhibitory postsynaptic current; γ-Aminobutyric acid (GABA); Whole-cell recording; Hippocampal slice; Rat (Mizutani, A. (761) 93)

Carageenan test
Nociceptin; Opioid receptor-like$_1$ receptor; Thermal hyperalgesia; Spinal facilitation (Yamamoto, T. (754) 329)

Carbachol
Pontine reticular formation; Potassium current; Intracellular staining; Biocytin; REM sleep (Núñez, A. (754) 1)

Antinociception; Glibenclamide; Atropine; Naloxone; Tail-flick latency; Rat (Kang, Y.-m. (761) 342)

Noradrenaline; Locus coeruleus; Prefrontal cortex; NMDA; Kainate; Clonidine; Microdialysis (Van Gaalen, M. (763) 56)

Power spectrum; Nucleus reticularis pontis oralis; Acetylcholine; Electroencephalography (EEG); Brainstem (Garzón, M. (766) 266)

Carbaryl
Anticholinesterase; Neostigmine; Nicotinic acetylcholine receptor; Ion channel; PC12 cell (Nagata, K. (769) 211)

Carbidopa
Positron emission tomography; 6-[^{18}F]Fluoro-L-DOPA; 3-*O*-Methyl-6-[^{18}F]fluoro-L-DOPA; Aromatic amino acid decarboxylase; Catechol-*O*-methyltransferase; COMT inhibitors: CGP 28014, OR-611, Ro 40-7592 (Psylla, M. (767) 45)

Carbocyanine double labelling
Macaca mulatta; Prefrontal cortex; β-Amyloid; Senile plaque; Apolipoprotein E; Glia; Immunofluorescence (Härtig, W. (751) 315)

Carbohydrate
Hypothalamus; Infusion; Diet selection; Fat; Protein; Enriched; Macronutrient (Van Dijk, G. (777) 147)

Carbon dioxide
Newborn; Cocaine; Cerebral blood flow; Asphyxia; Hypoxia (Feuer, P. (755) 142)

Ammonia; Alkalosis; Acidosis; pH_i; *Xenopus* (Yoshii, K. (757) 202)

Carbon dioxide reactivity
Focal cerebral ischemia; T2*-weighted magnetic resonance imaging; Rat (Ono, Y. (744) 207)

Carbon fiber
Nitric oxide (NO); Spinal cord; Voltammetry (Rivot, J.-P. (773) 66)

Carbon monoxide
Guanylyl cyclase; Heme oxygenase; Nitric oxide; N^G-Nitro-L-arginine methyl ester; Phosphodiesterase (Laitinen, K.S.M. (755) 272)

Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone
Fura-2; Cytosolic calcium; Calcium ion channel antagonist; Protonophore; Calcium ion removal (Sato, M. (768) 37)

Carbonyl formation
Reperfusion injury; Peripheral nerve; Ischemic neuropathy; α-Tocopherol; Endoneurial vessels (Anderson, G.M. (772) 156)

Carcinus maenas
Crustacean; Adult neurogenesis; Brain; Olfactory pathway; 5-Bromo-2′-deoxyuridine; BrdU; Neuron number (Schmidt, M. (762) 131)

Cardiac susceptibility
Stroke; Noise stress; Air-jet stimulation; Heart rate variability; Fast Fourier transformation (Cheung, R.T.F. (747) 181)

Cardiopulmonary receptor
Afferent C-fiber; Excitatory amino acid receptor; Neurogenic hypertension; Neurotransmission (Chianca Jr., D.A. (756) 46)

Cardiopulmonary vagal reflex
Blood pressure; Sympathetic nerve activity; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Lateral tegmental field; Raphe nuclei; Nucleus tractus solitarii (Vayssettes-Courchay, C. (744) 272)

Cardiorespiratory reflex
Capsaicin; Chemosensitive nerve ending; Nociceptive nerve ending; Skeletal muscle afferent (Kenagy, J. (744) 175)

Cardiovagal excitation
Excitatory amino acid receptor; Phosphonovaleric acid; Cardiovascular regulation; Sympatho-excitation; Autonomic regulation (Colombari, E. (749) 209)

Cardiovascular
Glutamate; Neurotransmission; Nitric oxide; Nitrosothiols; Signal transduction (Ohta, H. (746) 98)

Baroreceptor reflex; Baroreceptor afferent; c-*fos* immunohistochemistry; Nucleus tractus solitarius (Dean, C. (758) 201)

Cardiovascular centre
Blood pressure regulation; Medulla; Rat; Serotonin (Shiozaki, T. (755) 170)

Cardiovascular regulation
Opioid; Pro-opiomelanocortin; Post-translational processing; Glycyl-L-glutamine; Dipeptide (Unal, C.B. (747) 52)

Excitatory amino acid receptor; Phosphonovaleric acid; Cardiovagal excitation; Sympatho-excitation; Autonomic regulation (Colombari, E. (749) 209)

Kidney; Sympathetic nervous system; Osmoregulation; Visceral receptor; Autonomic nervous system; Circumventricular organ; Limbic system (Solano-Flores, L.P. (753) 102)

Cardiovascular response
Epibatidine; Nicotinic receptor; Spinal cord; Behavioral response (Khan, I.M. (753) 269)

CA1 region
Hippocampus; In vitro; LTP; NMDA; Calcium channel (Pananceau, M. (752) 255)

$[Ca^{2+}]_i$ response
Histamine H_1 receptor; Homologous desensitization; Catecholamine secretion; Rat; Adrenal chromaffin cell (Warashina, A. (762) 40)

Carnosine
Glutamate; Frog retina; Immunocytochemistry; Electron microscopy; Zinc; Neurotransmission (Panzanelli, P. (758) 143)

Carotid body
Arterial chemoreceptor; Neutral endopeptidase 24.11; Immunotitration; Ultrastructural localization; Enkephalinase; Neprilysin (Kumar, G.K. (748) 39)

Nicotinic receptor; Nicotine; α-Bungarotoxin; Catecholamine (Obeso, A. (754) 298)

Dopamine; D2 receptor isoforms (Bairam, A. (760) 287)

Chemoreceptor; Chemosensory inhibition; Nitric oxide; Sodium cyanide; Sodium nitroprusside (Alcayaga, J. (767) 384)

Carp
γ-Aminobutyric acid (GABA); $GABA_A$ receptor; OFF pathway; Amacrine cell; Bipolar cell; Retina; Neurotransmitter (Zhang, D.-Q. (759) 160)

Carrier-mediated
Nucleoside; Specificity; Thymidine; Transport; NBMPR; Blood-brain barrier; Choroid plexus (Thomas, S.A. (760) 59)

Ca^{2+} signalling
Medial prefrontal cortex; Pyramidal cell and interneuron; Apical dendrite; Long-term depression (Gabbott, P.L.A. (747) 352)

Caspase
Polyamine; Spermine; Cerebellar granule cell; Apoptosis; *N*-Methyl-D-aspartate receptor; CPP32 (Harada, J. (753) 251)

Cat
Learned bilateral blinking; Blink onset; Side superiority; Bilateral coupling; Temporal bilateral coordination (Spidalieri, G. (746) 34)

Thalamus; Lateralis medialis-suprageniculate nuclear complex; Pedunculopontine tegmental nucleus; Choline acetyltransferase; GABA; Glutamate (Hoshino, K. (747) 151)

Cytoarchitecture; Somatosensory cortex; Empirical method (Myasnikov, A.A. (750) 95)

Long-term potentiation; Long-term depression; Sensorimotor cortex; In vitro; NMDA receptor (Kitagawa, H. (751) 339)

c-Fos; Static muscle contraction; Vasopressin; Oxytocin; Hypothalamus; Exercise pressor reflex (Li, J. (752) 45)

Postnatal development; Respiratory control; Sneeze reflex; Trigeminal afferent; Brainstem; Transsynaptic labeling; Fos-like immunohistochemistry (Masmoudi, K. (757) 102)

Neural plasticity; Dorsal horn; Receptive field; Supraspinall (Garrison, D.W. (762) 228)

Spontaneous activity; Burst discharge; Time-series analysis; Mitral/tufted cell; Olfactory bulb (Motokizawa, F. (763) 285)

Nitric oxide; Sympathetic nervous system; Guinea-pig; Hamster; Mouse; Rabbit; Rat (Zanzinger, J. (764) 265)

γ-Aminobutyric acid (GABA); Inhibitory neurotransmitter; Brachium; Inferior colliculus; Medial geniculate; Quantitative morphometry (Saint Marie, R.L. (765) 173)

Defensive rage behavior; Serotonin; Periaqueductal gray; $5\text{-}HT_{1A}$ receptor; $5\text{-}HT_{2/1C}$ receptor; Hypothalamus; 8-OHDPAT; DOI hydrochloride; p-MPPI (Shaikh, M.B. (765) 198)

WGA-HRP; Eye movement; Cerebellum; Lateral cerebellar nucleus; Interposed cerebellar nucleus (Verveer, C. (766) 289)

Neurofilament; Immunocytochemistry; Reticular formation; Brainstem; Aging (Zhang, J.-H. (769) 196)

Learned bilateral blinking; Blink onset; Side superiority; Bilateral coupling; Temporal bilateral coordination; Corpus callosum; Split-brain (Spidalieri, G. (770) 30)

Catalase
Aminotriazole; Astrocyte; Glutathione; Glutathione reductase; H_2O_2; Mercaptosuccinate; Pentose phosphate pathway (Dringen, R. (759) 67)

Reactive oxygen species; Mitochondrial metabolic activity; Lipid peroxidation; Excitotoxicity; Neuron degeneration; Superoxide dismutase; Glutathione peroxidase (Azbill, R.D. (765) 283)

Blood-brain barrier; Blood-nerve barrier; Superoxide dismutase; Polyamine; Putrescine; Free radical (Wengenack, T.M. (767) 128)

Hydrogen peroxide; Superoxide dismutase; Cytotoxicity (Mann, H. (770) 163)

Catalepsy
Stress; Restraint; Sensitization; Haloperidol; 8-OH-DPAT; $5\text{-}HT_{1A}$; Vacuous chewing movement; Rat (Fdez. Espejo, E. (755) 351)

Dystonia; Animal model; Neuroleptic; NMDA receptor (Richter, A. (769) 296)

Dopamine; *N*-Methyl-D-aspartate receptor; Corpus striatum; Substantia nigra (Özer, H. (777) 51)

Cat and rat carotid bodies
Chemosensory discharge; Intracellular $[Ca^{2+}]$; Membrane potential; Na^+/Ca^{2+} exchanger (Roy, A. (769) 396)

Catecholamine
Carotid body; Nicotinic receptor; Nicotine; α-Bungarotoxin (Obeso, A. (754) 298)

Methamphetamine; Indusium griseum; Hippocampal remnant; Seizure; Neurodegeneration; Fluoro-Jade; Glutamate (Schmued, L.C. (759) 135)

Galanin; Activin; Nucleus tractus solitarius; c-Fos; Immunocytochemistry; Rat (Matta, S.G. (759) 259)

Ventricular zone; α_1-Adrenoreceptor; Cell culture; DNA synthesis; Apoptosis (Pabbathi, V.K. (760) 22)

3,4-dihydroxyphenylglycolaldehyde; Apoptosis; Neurotoxin; Neuronal death; Alzheimer's disease (Burke, W.J. (760) 290)

Pain; Peripheral sensitization; Ultrastructure (Carlton, S.M. (763) 271)

Atipamezole; c-Fos; Locus coeruleus; Rostral ventrolateral medulla; Withdrawal; α_2-Adrenergic receptor (Stornetta, R.L. (764) 81)

Cholecystokinin; Nucleus of the solitary tract; Area postrema; Ventrolateral medulla; Vagus nerve; Old-world primate; Rhesus monkey; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

Mouse; Monoamine oxidase; Transgenic animal; Histochemistry; Serotonin; Aggressive behavior; Species difference (Ikemoto, K. (771) 121)

Parkinson's disease; Substantia nigra; Hindered amine; Anti-oxidant (Masalha, R. (774) 260)

Catecholamine secretion
Histamine H_1 receptor; Homologous desensitization; $[Ca^{2+}]_i$ response; Rat; Adrenal chromaffin cell (Warashina, A. (762) 40)

Catechol-*O*-methyltransferase
Positron emission tomography; 6-[^{18}F]Fluoro-L-DOPA; 3-*O*-Methyl-6-[^{18}F]fluoro-L-DOPA; Aromatic amino acid decarboxylase; Carbidopa; COMT inhibitors: CGP 28014, OR-611, Ro 40-7592 (Psylla, M. (767) 45)

Catfish
Taste; Electrophysiology; Mixture; Quinine; Amino acid; Facial nerve (Ogawa, K. (769) 263)

Catfish *Clarias batrachus*
Calcitonin; Brain; Subcommissural organ; Reissner's fiber; Immunocytochemistry; Frog *Rana tigrina*; Lizard *Caloter versicolor* (Subhedar, N. (751) 13)

Cathepsin B
Global ischemia; Lysosome; Delayed neuronal death; Decapitation; Cell death (Hill, I.E. (751) 206)

Cathepsin D
Alzheimer's disease; β-Secretase; Acidic protease; Recombinant βAPP; Swedish mutation; FCA18 antibody (Chevallier, N. (750) 11)

Alzheimer's disease; Amyloid β protein precursor; Amyloid β protein; Lysosome; Pancreas; Transgenic mouse (Kawarabayashi, T. (765) 343)

Cathepsin G
Blood–brain barrier; Brain edema; Cerebral capillary; Elastase; Intracerebral hemorrhage; Neutral protease; Plasmin (Armao, D. (767) 259)

Cation current
Oscillation; Pore protein; Adenosine triphosphate synthase subunit c (McGeoch, J.E.M. (766) 188)

Cat spinal cord
Neuropeptide Y; Antibody microprobe; Spontaneous release; Rat spinal cord; Spinal transection (Mark, M.A. (754) 195)

Caudalis
Pain; Spinal trigeminal nucleus; Parabrachial; Medulla (Allen, G.V. (754) 269)

Caudal ventrolateral medulla
Cardiopulmonary vagal reflex; Blood pressure; Sympathetic nerve activity; Rostral ventrolateral medulla; Lateral tegmental field; Raphe nuclei; Nucleus tractus solitarii (Vayssettes-Courchay, C. (744) 272)

Blood pressure; Brainstem; Excitatory amino acid; Microdialysis; Exercise (Hand, G.A. (748) 211)

Nucleus tractus solitarius; Substance P; Retrograde tracing; Immunohistochemistry; Electron microscopy; Rat (Kawano, H. (754) 315)

Caudate
Cholecystokinin; Dopamine; Coexistence; Microdialysis; Nucleus accumbens; Putamen (Maidment, N.T. (747) 290)

Dopamine turnover; Striatum; Putamen; Monkey; Common marmoset; MPTP (Nomoto, M. (767) 235)

Acetylcholine; Choline; Diffusion; Uptake; Anterior thalamus; Agarose gel (Xin, Q. (776) 126)

Caudate nucleus / putamen
Electron microscopy; Nucleus accumbens shell; Immunocytochemistry; Ultrastructure; Dopamine D_2 receptor; Gamma-aminobutyric acid (GABA) (Delle Donne, K.T. (746) 239)

Caudate-putamen
Acetylcholine release; Morphine; Kainic acid; Olfactory tubercle; Ventral striatum; Dorsal striatum; Dopamine; Serotonin (Guevara, B.H. (749) 139)

Interneuron; Spiny neuron; Intracellular calcium; Endoplasmic reticulum; Dendritic spine (Martone, M.E. (756) 9)

p-Chlorophenylalanine; 5-Hydroxytryptamine; Bed nucleus; Thalamus; Amygdala; Parabrachial nucleus; Nucleus of the solitary tract (Javed, A. (774) 94)

Alcohol drinking; Alcohol-preferring rat; Dopamine ; 3-Methoxytyramine; Water drinking; Nucleus accumbens; Olfactory tubercle (Honkanen, A. (774) 207)

Caudoputamen
Dynorphin; Substance P; Enkephalin; Scopolamine; Oxotremorine; Accumbens; Behavior (Wang, J.Q. (748) 62)

Ca^{2+} uptake
Alzheimer's disease; Amyloid β protein; Chlorpromazine; Cortical neuron; Neurotoxicity; PC12 cell; Phenothiazine (Ueda, K. (748) 184)

Causalgia
C-fiber; Polymodal nociceptor; α_2-Adrenoceptor; Sympathetic pain; Sympathetic stimulation; Epinephrine; Nerve injury (O'Halloran, K.D. (759) 233)

Ca^{2+}, voltage-clamp
ACh receptor; Linoleic acid; Linolenic acid; Protein kinase C; *Xenopus* oocytes (Nishizaki, T. (751) 253)

CBF
Rat; Brain; Brain water content; Brain edema; Brain ischemia; Cerebral blood flow (Schwab, M. (749) 82)

l-CBF
EPA-E; SHRSP; l-CGU; Hypertension; Prostaglandin; Vasodilation (Katayama, Y. (761) 300)

rCBF
Thromboembolic stroke; MCA occlusion; Rat; Thrombolysis; rt-PA (Busch, E. (778) 16)

C57BL / 6 mice
Long-term potentiation; DBA/2 mice; γ-PKC; Hippocampus (Matsuyama, S. (763) 127)

CCG derivative
Metabotropic glutamate receptor; DCG-IV; Cortical neuron; NMDA receptor; Depolarization (Uyama, Y. (752) 327)

L-CCG-II
DCG-IV; DHPG; Metabotropic glutamate receptor; Autoradiography (Testa, C.M. (773) 15)

CD38
Cyclic ADP-ribose; Central nervous system; Immunohistochemistry; Rat; Ultrastructure (Yamada, M. (756) 52)

CD4 and CD8 T-cells
Frontal cortex; Thymus; Prolactin; Substantia nigra ventral tegmental area (Gaufo, G.O. (756) 191)

2-[^{14}C]Deoxyglucose
Audiogenic seizure; Seizure repetition; Cerebral energy metabolism (Pereira de Vasconcelos, A. (762) 114)

cdk5
hNF-H; Phosphorylation; SDS-PAGE; IPTG (Pant, A.C. (765) 259)

Neurofilament; Neuronal cdc2-like kinase; Neuronal cdk5 activator; Phosphorylation (Lee, K.-Y. (773) 197)

Cell adhesion molecules
Bovine brain microvessel endothelial cells (BBMECs); E-cadherin; Ca^{2+}-dependent; Decapeptide; Immunofluorescence; Cell-cell adhesion (Pal, D. (747) 103)

Hippocampus; Dendrite; Neuron; Human (Hino, H. (753) 353)

Cell-cell adhesion
Bovine brain microvessel endothelial cells (BBMECs); E-cadherin; Cell adhesion molecules; Ca^{2+}-dependent; Decapeptide; Immunofluorescence (Pal, D. (747) 103)

Cell culture
RNA; Alzheimer's disease; Amyotrophic lateral sclerosis; Parkinsonism-dementia; Guam; Axonal transport; Neurotoxin (Wakayama, I. (748) 237)

Dopaminergic neuron; Neurotoxicity; Cyclic adenosine monophosphate; 1-Methyl-4-phenylpyridinium; *N*-methyl-D-aspartate (Dickie, B.G.M. (753) 335)

Axonal transport; Dibutyryl cyclic AMP; Hippocampus; Organelle motion; Neurotransmitter (Hashimoto, Y. (755) 343)

Rat; Cerebral cortical neuron; Calcium current; ω-Agatoxin-TK; Voltage-clamp; Synaptic transmission (Teramoto, T. (756) 225)

Catecholamine; Ventricular zone; α_1-Adrenoreceptor; DNA synthesis; Apoptosis (Pabbathi, V.K. (760) 22)

Corticospinal motor neuron; Ciliary neurotrophic factor; Glial cell line-derived neurotrophic factor; Neurotrophins; Cell survival (Junger, H. (762) 56)

Ion homeostasis; Brain microvasculature; Drug delivery; Brain tumor; Drug development; Alternative testing; Neurodegenerative disorder (Stanness, K.A. (771) 329)

Ca^{2+}-ATPase; Calcium homeostasis; Electron microscopy; Endoplasmic reticulum; Protein synthesis; Ribosomal aggregation (Doutheil, J. (775) 43)

Cell cycle
Proliferation; Olidodendroglia; Microglia; Astroglia; Neuroglia; Image analysis (Vela Hernández, J.M. (747) 130)

Proenkephalin gene; Basal expression; Protein kinase (Hildebrand, B. (759) 285)

Alcohol; Fetal alcohol syndrome; Growth factor; Kinetics; Neuroblastoma; Proliferation; Receptor (Luo, J. (770) 139)

Cell cycle protein
Cerebral ischemia; Rat; p53 response protein; DNA damage; DNA repair; Apoptosis (Li, Y. (765) 301)

Cell death
Reactive oxygen species; Lipid peroxidation; Peroxynitrite; Brain (Ekert, P. (747) 9)

Auditory system; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Deafferentation; Brain slice (Hyson, R.L. (749) 61)

Transferrin receptor; Iron; Substantia nigra; Ventral tegmental area; Parkinson's disease; Oxidative stress; Autoradiography (Faucheux, B.A. (749) 170)

Cathepsin B; Global ischemia; Lysosome; Delayed neuronal death; Decapitation (Hill, I.E. (751) 206)

Weaver; Inward rectifier K^+ channel; In situ hybridization; Immunohistochemistry (Lauritzen, I. (753) 8)

Ca^{2+} channel; Ischemia; Hippocampus; Confocal microscopy; Electrophysiology (Small, D.L. (753) 209)

Hypoxia; Apoptosis; Cerebral cortex; Development; Corticogenesis (Stewart, W.B. (760) 17)

Neurofilament, 68 kDa; Heat-shock protein; c-*fos*; Acid fuchsin; Axonal injury; Glial fibrillary acidic protein; Astroglia; Head trauma (Dunn-Meynell, A.A. (761) 25)

Nitric oxide synthase; Development; Retina; Optic tract lesion; Rat (Patel, J.I. (761) 156)

Oxidative stress; Glutathione; Cystine; Glutamate; Mouse trisomy 16; Down syndrome; Alzheimer's disease (Stabel-Burow, J. (765) 313)

Melatonin; PC12 cell; Cell growth; RZR nuclear receptor (Roth, J.A. (768) 63)

ALZ-50; Apoptosis; c-*fos*; p53 (Miller, M.W. (769) 233)

Apoptosis; Cerebellar granule neuron; Intracellular calcium; Mastoparan; Cholera toxin; Thapsigargin; Caffeine (Lin, S.-Z. (771) 184)

Tissue plasminogen activator; *Weaver*; Cerebellum; Neuron (Mecenas, P.E. (772) 233)

Axotomy; Ciliary neurotrophic factor; Cytokine; Neuronal cell culture; Spinal cord injury; Trophic factor (Rosenberg, L.J. (775) 209)

Cell growth
Melatonin; PC12 cell; Cell death; RZR nuclear receptor (Roth, J.A. (768) 63)

Cell injury
Astrocyte; Glutamate; Uptake; Transporter (Eng, D.L. (778) 215)

Cell line
Tubulin; Androstenedione; Differentiation; Mouse; Cytoskeleton (Thuerl, C. (762) 47)

Cell loss
Dopamine; Tyrosine hydroxylase; Malonate; Substantia nigra; Striatum; Parkinson's disease (Sonsalla, P.K. (773) 223)

Retinal topography; Visual cortex ablation; Neonatal lesion (Théoret, H. (775) 203)

Cell morphology
Nitric oxide; Cerebellar astrocyte; Primary culture; Cyclic guanosine monophosphate (Tomita, A. (744) 344)

Alzheimer's disease; Chloride channel; Glia; Intracellular calcium; Metal; Patch-clamp; Potassium channel (Jalonen, T.O. (746) 85)

Cell recognition molecule
Neural cell adhesion molecule; L1 antigen; Contactin; Cerebrospinal fluid; Schizophrenia (Poltorak, M. (751) 152)

Cell renewal
Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Proliferation; Opioid; Naltrexone; [Met^5]-enkephalin; Eye (Zagon, I.S. (759) 92)

Cell survival
Corticospinal motor neuron; Ciliary neurotrophic factor; Glial cell line-derived neurotrophic factor; Neurotrophins; Cell culture (Junger, H. (762) 56)

Cell swelling
Astrocyte; Glutamate uptake; Glutamate release; Hypothermia; Lactic acid; Potassium ion release (Bender, A.S. (750) 59)

C6 glioma; α-Trinositol; Lactacidosis; Glutamate (Staub, F. (766) 285)

Cellular energy metabolism
Cytochrome oxidase; Quantitative cytochemistry; Inferior colliculus; Morphometry; Alzheimer's disease (Gonzalez-Lima, F. (752) 117)

Cellular expression
Dopamine; Anti-peptide antisera; Forebrain; Hindbrain (Ariano, M.A. (746) 141)

Dopamine; Anti-peptide antisera; Forebrain; mRNA (Ariano, M.A. (752) 26)

Cellular redox activity
Amyloid β protein; Alzheimer's disease; Human amylin; Astrocytes; Reactive gliosis (Abe, K. (762) 285)

Cell volume
Hypertonia; Osmotic effect; Perforated patch clamp; Whole-cell patch clamp; Ion channel; Voltage-gated current; Synaptic current; Excitatory postsynaptic current; Freshly isolated cell (Huang, R. (748) 157)

Central
Glucagon-like peptide-1 (GLP-1); Feeding behavior; Chicken; Mammal (Furuse, M. (755) 167)

Glucagon-like peptide-1 (GLP-1); Neuropeptide Y (NPY); Feeding behavior; Chicken (Furuse, M. (764) 289)

Central amygdaloid nucleus
Vasopressin; Amygdala; Neuron activity; Brain slice (Lu, Y.-F. (768) 266)

Central benzodiazepine receptor
Peripheral benzodiazepine receptor; Estradiol; Progesterone; Corticosterone; Steroidogenesis (Weizman, R. (772) 203)

Central cardiovascular reflex pathway
Baroreceptor reflex pathway; Commissural nucleus; Sympathetic nervous system; Vagus (Ciriello, J. (749) 35)

Central chemoreceptor
BCECF; Control of breathing; Dissociated cell culture; γ-Aminobutyric acid (GABA); Glutamate; Respiration (Sugama, S. (777) 95)

Central complex
Medial pallidum; Motor thalamus; Macaques; Axonal ending; Three-dimensional reconstruction (Arecchi-Bouchhioua, P. (754) 311)

Central 5-HT$_{1A}$ receptor
Circadian rhythm; Serotonin (5-HT) syndrome; 8-OH-DPAT; Intracerebroventricular administration, chronopharmacology (Nagayama, H. (756) 92)

Central nervous system
NO; Fish; Neuronal messenger; Synaptic transmission; Electron microscopy; Confocal laser scanning microscopy (Holmqvist, B. (745) 67)

Neuropeptide; FMRFamide; Substance P; Sensory afferents; Chemoreception; Immunocytochemistry; Arthropod (Schmidt, M. (746) 71)

Somatostatin; Brain-derived neurotrophic factor; Gene expression; Primate; Aging (Hayashi, M. (749) 283)

Prostaglandin E_2; Wide dynamic range neuron; Hyperalgesia; Analgesia; Pain; Brain (Oka, T. (749) 354)

Leech; Cannabinoid; Anandamide; Nitric oxide (Stefano, G.B. (753) 219)

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CD38; Cyclic ADP-ribose; Immunohistochemistry; Rat; Ultrastructure (Yamada, M. (756) 52)

Phencyclidine; Brain metabolism; Cytochrome P_{450}; Drug abuse; High performance liquid chromatography (Laurenzana, E.M. (756) 256)

Spinal cord injury; Secondary damage; Interleukin-1β; Interleukin-6; Tumor necrosis factor α; Macrophage invasion (Klusman, I. (762) 173)

Aging; Choline acetyltransferase; Acetylcholinesterase; Cholinergic enzymatic assay; Cephalopod; *Sepia officinalis* (Bellanger, C. (762) 219)

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HIV; AIDS; Microglia; Astrocytes; Organotypic culture; Receptor; Endocytosis (Hao, H.-N. (764) 149)

Prostaglandin E_2; Hyperalgesia; Analgesia; 17-Phenyl-ω-trinor prostaglandin E_2; MB28767; Pain (Oka, T. (771) 278)

Morphine; Midazolam; Opioid; Benzodiazepine; Met-enkephalin; Tolerance; Brain region; Spinal cord; Peripheral tissue (Tejwani, G.A. (775) 119)

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Dopamine; Striatum; Substantia nigra; Nociception; Deafferentation pain; Parkinson's disease; Frontal lobe (Saadé, N.E. (751) 1)

Central pattern generator
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Reticular formation; Fictive locomotion; Electrical stimulation; NMDA; Lamprey (Guertin, P. (753) 328)

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Naphthalenic compound; Melatonin agonist; Flumazenil; Bicuculline; GABAergic mechanism; Intrastriatal injection (Tenn, C.C. (756) 293)

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Cephalopod
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Cerebellar cortex
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NMDA; AMPA; AP-1; Transcription factor; Rat (Hou, Y.-N. (754) 79)

Glutamine; Transport; Cerebral cortical neuron; Astrocyte (Su, T.-Z. (757) 69)

Cytoskeleton; Tau protein; Calcium; Okadaic acid; Phosphatase 1/2A; Cortical neuron (Adamec, E. (757) 93)

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Glutamate; 2-Deoxyglucose; Excitotoxicity (Minervini, M. (768) 57)

Cerebellar granule cell, dissociated
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Cerebellar granule neuron
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nNOS; Barbiturate; Cytochrome *P*-450 (Thompson, C.M. (754) 142)

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Nitric oxide; Glial cell; Fluorocitrate; In vivo microdialysis; Barrel rotation; Arginine; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

Radioligand assay; Autoradiography; In situ hybridization; Tolerance; Hippocampus; Cerebral cortex; Striatum (Johansson, B. (762) 153)

Toxicity; Voltage-dependent K^+ channel; Brain damage; Seizure; Hippocampus (Mourre, C. (762) 223)

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Glutamate transporter; EAAT4; Purkinje cell; Development (Itoh, M. (767) 265)

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Weaver; Thalamus; Substantia nigra; In situ hybridization; K_{IR} channel (Chen, S.-C. (778) 251)

Substance P; Purkinje cell; Immunohistochemistry; Gerbil (Kang, T.-C. (778) 397)

Apamin; Brain damage; Ca^{2+}-activated K^+ channel; Seizure; Infusion (Mourre, C. (778) 405)

Cerebellum granule cell
Neurofilament protein; Neuronal development; NF-66; NF-L; In situ hybridization; 10q24; Infantile onset spinocerebellar ataxia with sensory neuropathy (Chan, S.-O. (775) 107)

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Cerebral blood flow
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Cerebral ischemia; Stroke; Middle cerebral artery; Laser-Doppler flowmetry; Rat (Soriano, M.A. (747) 273)

Cerebral contusion; Excitatory amino acid; Microdialysis; Extravasation; Autoradiography; Rat (Koizumi, H. (747) 304)

Astrocyte; Cerebrovascular regulation; Endothelium; Neuron; Nitric oxide synthase; Rat (Weikert, S. (748) 1)

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Hypercapnia; Nitric oxide; Adenosine; Caffeine; Cortical arousal; Electrocorticogram (Estevez, A.Y. (758) 1)

Enzyme electrode; Hypoxia; Lactate; Laser Doppler flowmeter; Nucleus tractus solitarii; Rat (Ikegami, Y. (758) 33)

Arousal; Cutaneous blood flow; Internal carotid artery; Ultrasound Doppler flowmeter (Yu, Y.-H. (767) 1)

Laser-Doppler flowmetry; Iodoantipyrine; CO_2 reactivity; 5-Hydroxytryptamine$_{1A}$ receptor (Bonvento, G. (767) 208)

Cerebral blood vessel
Choline acetyltransferase; NADPH diaphorase; Nitric oxide synthase; Retrograde axonal tracing; True blue; Sphenopalatine ganglion (Kimura, T. (773) 117)

Cerebral capillary
Blood–brain barrier; Brain edema; Cathepsin G; Elastase; Intracerebral hemorrhage; Neutral protease; Plasmin (Armao, D. (767) 259)

Cerebral circulation
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Cerebral contusion
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Cerebral cortex
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Acetylcholine; Release; Galanin; Mastoparan (Consolo, S. (756) 174)

BDNF; Glutamate; NMDA; NO; Neurotoxicity (Kume, T. (756) 200)

Heat shock protein (HSP)70; Restraint water-immersion stress; Stomach; Rat; Messenger RNA; Northern blotting (Fukudo, S. (757) 146)

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Ischemia/reperfusion; Volume regulation; Anion transport; Chloride channel; Dipyridamole; SITS; NPPB (Phillis, J.W. (758) 9)

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α7 neuronal receptor; Glutamate; Neuronal CNS receptor; Neuroprotection; Nicotine; *N*-Methyl-D-aspartate; Primary culture (Kaneko, S. (765) 135)

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Cerebral cortical neuron
Rat; Cell culture; Calcium current; ω-Agatoxin-TK; Voltage-clamp; Synaptic transmission (Teramoto, T. (756) 225)

Glutamine; Transport; Cerebellar granule cell; Astrocyte (Su, T.-Z. (757) 69)

Cerebral edema
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Hydrocephalus; Cerebral ischemia; Magnetic resonance spectroscopy; Diffusion weighted magnetic resonance imaging (Braun, K.P.J. (757) 295)

Cerebral energy metabolism
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Cerebral glucose metabolism
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Cerebral glucose utilization
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Cerebral infarction
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Cerebral ischemia
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Tolerance; Lipopolysaccharide; Tumor necrosis factor α; Endotoxin; Rat (Tasaki, K. (748) 267)

Excitatory amino acid; Sodium channel; Glutamate (Kawaguchi, K. (749) 131)

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Blood-brain barrier; Free radical; Polyamine; Superoxide dismutase; Hippocampus; Rat (Wengenack, T.M. (754) 46)

l-Deprenyl; Stroke; Neurodegeneration; Neuronal rescue; hsp70 mRNA (Lahtinen, H. (757) 260)

Hydrocephalus; Cerebral edema; Magnetic resonance spectroscopy; Diffusion weighted magnetic resonance imaging (Braun, K.P.J. (757) 295)

P-selectin; HSP72; Rat; Middle cerebral artery (Suzuki, H. (759) 321)

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LY231617; 3-Bromo-7-nitroindazole; Aminoguanidine; Nitric oxide (NO); Hippocampus; Mongolian gerbil (O' Neill, M.J. (760) 170)

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Delayed neuronal death; CA1; Hypothermia; Neuroprotection; Astroglia; Microglia; Immunohistochemistry (Nakajima, Y. (765) 113)

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Oxidative metabolism; Baboon; Infarction; Reperfusion; Neuroprotection; Stroke; Positron emission tomography (Touzani, O. (767) 17)

Lisuride; Dopamine D_2 agonist; Aminergic neurotransmitter; Learning; Memory (Caldwell, M.A. (771) 305)

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Calcium antagonist; PCA50938; Nimodipine; Flunarizine; Gerbil; Neuroprotection (Zapater, P. (772) 57)

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Cerebral ventricle
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Cerebroprotection
Penumbra; Focal ischemia; Phospholipase; Quinacrine (Estevez, A.Y. (752) 203)

Cerebrospinal fluid
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Choroid plexus; Cerebral blood flow; Norepinephrine; Microsphere (Hathaway, C.A. (751) 344)

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Cerebrospinal fluid sodium
Anteroventral third ventricle; Excitotoxic lesion; Ouabain; Angiotensin II (Veerasingham, S.J. (749) 157)

Cerebrovascular lesion
TDN-345; Stroke-prone spontaneously hypertensive rat; Stroke; Local cerebral glucose utilization; Sensorimotor cortex; Locus coeruleus (Nakayama, T. (762) 203)

Cerebrovascular regulation
Astrocyte; Cerebral blood flow; Endothelium; Neuron; Nitric oxide synthase; Rat (Weikert, S. (748) 1)

Cervical spinal cord
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C-fiber
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c-*fos*
Progesterone; Immediate early gene; Progestin receptor; Hypothalamus; Preoptic area (Auger, A.P. (746) 164)

jun-B; Aging; Circadian rhythm; Light (Benloucif, S. (747) 34)

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NGFI-A; Suprachiasmatic nucleus; Vasoactive intestinal peptide; Rat (Tanaka, M. (756) 305)

Phencyclidine; Immediate-early gene; Rimcazole; 1,3-Di(2-tolyl)guanidine; σ Receptor; Pentazocine; Rat (Sharp, J.W. (758) 51)

Neurofilament, 68 kDa; Heat-shock protein; Acid fuchsin; Axonal injury; Cell death; Glial fibrillary acidic protein; Astroglia; Head trauma (Dunn-Meynell, A.A. (761) 25)

Non-photic; Entrainment; Serotonin; Suprachiasmatic nucleus; Circadian rhythm; Mouse; Activity feedback; 5,7-Dihydroxytryptamine (Bradbury, M.J. (768) 125)

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NGFI-B; Rat; Lactation; Stress; Paraventricular nucleus; Lateral septum; Amygdala (Da Costa, A.P.C. (770) 151)

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hsp70; Brain slice; FBP (fructose-1,6-bisphosphate); Neonate; Hypoxia (Hasegawa, K. (750) 1)

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Angiotensin II; Calcium channel; Drinking behavior; Forebrain; Nifedipine (Zhu, B. (778) 206)

c-*fos* gene
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Baroreceptor reflex; Baroreceptor afferent; Cardiovascular; Nucleus tractus solitarius (Dean, C. (758) 201)

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c-*fos* protooncogene
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Arachidonate; Docosahexaenoate; Serotonin-2 receptor; Phospholipase A_2; Phospholipase C (Garcia, M.C. (768) 43)

CGP-39653
Zinc oxide; Glutamate; Glycine; *N*-Methyl-D-aspartate; Receptor (Terse, P.S. (744) 347)

CGP36742
$GABA_B$ receptor antagonist; Morris water maze task; Baclofen; Scopolamine; Motor incoordination (Nakagawa, Y. (766) 101)

CGRP
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CGRP receptor
Fos-like immunoreactivity; Trigeminal nucleus caudalis; Migraine; NMDA receptor; NK_1 receptor (Clayton, J.S. (775) 74)

l-CGU
EPA-E; SHRSP; l-CBF; Hypertension; Prostaglandin; Vasodilation (Katayama, Y. (761) 300)

Channel rings
Potassium channel; Nonpyramidal cell; Interneuron; Parallel fiber; Immunofluorescence; Parvalbumin; Calbindin; Ultrastructural localization (Sekirnjak, C. (766) 173)

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Rat; Perinatal lead exposure; Septohippocampal system; Cholinergic neurons; ChAT immunocytochemistry; HC-3 binding; AChE histochemistry (Bourjeily, N. (771) 319)

ChAT immunocytochemistry
Rat; Perinatal lead exposure; Septohippocampal system; Cholinergic neurons; ChAT activity; HC-3 binding; AChE histochemistry (Bourjeily, N. (771) 319)

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Cocaine; Conditioned place preference; Protein kinase A; Protein kinase C; H7; H89 (Cervo, L. (775) 30)

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Chemokine
Prostaglandin E_2 (PGE_2); Macrophage inflammatory protein-1β (MIP-1β); Fever; Hypothalamus; Organum vasculosum laminae terminalis (OVLT); Preoptic area (Armengol, J.A. (748) 245)

Chemoreception
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Mixture; Binding; Coding; Crustacea; *Panulirus* (Burgess, M.F. (771) 292)

Chemoreceptor
Carotid body; Chemosensory inhibition; Nitric oxide; Sodium cyanide; Sodium nitroprusside (Alcayaga, J. (767) 384)

Chemoreflex
Hypoxia; Rat; Indolamine; Tryptophan hydroxylase; NSD 1015 (Poncet, L. (765) 122)

Chemosensation
Enteric nervous system; Myenteric plexus; Neuropeptide; Visceral sensation (Tamura, C.S. (770) 248)

Chemosensitive nerve ending
Capsaicin; Cardiorespiratory reflex; Nociceptive nerve ending; Skeletal muscle afferent (Kenagy, J. (744) 175)

Chemosensitivity
Irritant; Spice; Black pepper; Capsaicin; Proton; Synergy; Antagonist; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

Chemosensory discharge
Cat and rat carotid bodies; Intracellular $[Ca^{2+}]$; Membrane potential; Na^+/Ca^{2+} exchanger (Roy, A. (769) 396)

Chemosensory inhibition
Carotid body; Chemoreceptor; Nitric oxide; Sodium cyanide; Sodium nitroprusside (Alcayaga, J. (767) 384)

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Chick discrimination learning
Handling and novelty; Benzodiazepine/$GABA_A$ receptor (Salvatierra, N.A. (757) 79)

Chicken
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Glucagon-like peptide-1 (GLP-1); Neuropeptide Y (NPY); Central; Feeding behavior (Furuse, M. (764) 289)

Aminoglycoside; Hair cell; Endocytosis; Lysosome; Trafficking; Toxicity (Hashino, E. (777) 75)

Chipmunk
Circadian rhythm; Melatonin (Murakami, N. (775) 240)

Chloral hydrate
Social isolation stress; Ethanol; Pentobarbital; CRF system; $GABA_A$/benzodiazepine receptor complex (Matsumoto, K. (753) 318)

Chloride
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Chloride channel
Alzheimer's disease; Cell morphology; Glia; Intracellular calcium; Metal; Patch-clamp; Potassium channel (Jalonen, T.O. (746) 85)

Substantia nigra; Taurine; γ-Aminobutyric acid (GABA); Glycine; Bicuculline; Strychnine (Ye, G.-l. (749) 175)

Cerebral cortex; Ischemia/reperfusion; Volume regulation; Anion transport; Dipyridamole; SITS; NPPB (Phillis, J.W. (758) 9)

Chloride ion flux
Forced swim; Restraint; Plus maze; Fear; Anxiety; Rat (Martijena, I.D. (752) 136)

2-Chloroadenosine
Kindling; Seizure; Caffeine; Amygdala; Hippocampus (Pourgholami, M.H. (751) 259)

Amygdala; Kindling; Seizure; Caffeine; Adenosine A_1 receptor (Pourgholami, M.H. (775) 37)

***p*-Chloroamphetamine**
Acetylcholine; Serotonin; $5\text{-}HT_4$ receptor; Frontal cortex; Rat (Yamaguchi, T. (772) 95)

7-Chloro-kynurenic acid
WAY 100635; Serotonin $5\text{-}HT_{1A}$ receptor; Glycine site; NMDA receptor; Scopolamine; Hippocampus; Spatial learning; Rat (Carli, M. (774) 167)

***p*-Chlorophenylalanine**
5-Hydroxytryptamine; Bed nucleus; Caudate–putamen; Thalamus; Amygdala; Parabrachial nucleus; Nucleus of the solitary tract (Javed, A. (774) 94)

1-(*m*-Chlorophenyl)-biguanide
Kindling; Serotonin; $5\text{-}HT_3$ receptor; Epilepsy; Seizure; Amygdala; Rat (Wada, Y. (759) 313)

Chloroquine retinopathy
Alzheimer disease; Amyloid β protein; Amyloid precursor protein; Amyloid-associated proteins; Retinal ganglion cell (Yoshida, T. (764) 283)

Chlorpromazine
Alzheimer's disease; Amyloid β protein; Ca^{2+} uptake; Cortical neuron; Neurotoxicity; PC12 cell; Phenothiazine (Ueda, K. (748) 184)

Cholecystokinin
Somatostatin; μ Agonist; μ Antagonist; κ Antagonist; Body temperature (Ghosh, S. (745) 152)

Corticotropin-releasing factor; CRF-binding protein; Hippocampus; Kindling; Co-expression; Neuropeptide Y (Smith, M.A. (745) 248)

Dopamine; Coexistence; Microdialysis; Nucleus accumbens; Caudate; Putamen (Maidment, N.T. (747) 290)

Conditioned activity; Locomotion; Devazepide; L-365,260; PD-140548; Cocaine; Reward-related learning; Nucleus accumbens (Josselyn, S.A. (763) 93)

Nucleus of the solitary tract; Area postrema; Ventrolateral medulla; Vagus nerve; Catecholamine; Old-world primate; Rhesus monkey; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

Hepatic branch; Rat; Satiety; Vagus nerve; Visceral afferent (Cox, J.E. (776) 189)

Push–pull perfusion; Vagus nerve; Somatostatin; Substance P; Calcitonin gene-related peptide; Neurotensin (Saleh, T.M. (778) 56)

Cholecystokinin octapeptide CCK-8
Acupuncture; Seizure; Opioid; Neuropeptide (Zhang, L.-X. (745) 158)

Cholera toxin
Anterograde neuronal tracing; Biocytin; Centrifugal; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

c-Fos; Sympathetic nervous system; Diet-induced obesity (Dunn-Meynell, A.A. (748) 100)

Cognition enhancer; cAMP; G-protein; Pertussis toxin; Metabotropic glutamate receptor (Oka, M. (754) 121)

Apoptosis; Cell death; Cerebellar granule neuron; Intracellular calcium; Mastoparan; Thapsigargin; Caffeine (Lin, S.-Z. (771) 184)

Cholera toxin B
Fetal spinal cord; Transplantation; Muscle reinnervation; Spinal neuron; Sciatic nerve; Axonal growth; Choline acetyltransferase (Katsuki, M. (771) 31)

Cholera toxin B subunit
Superior salivatory nucleus; Pterygopalatine ganglion; Glutamate; γ-Aminobutyric acid; Glycine receptor; Immunohistochemistry; Wheat germ agglutinin conjugated horseradish peroxidase (Kobayashi, M. (766) 72)

Nitric oxide; NADPH-diaphorase; NOS; Medial amygdala; Paraventricular nucleus; Rat (Tanaka, M. (777) 13)

Choline
Magnetic resonance spectroscopic imaging; Diffusion-weighted imaging; *N*-Acetylaspartate; Creatine; Rat brain; Kainate; Epilepsy (Tokumitsu, T. (744) 57)

Hippocampal slice; Hypoxia; Bilobalide; *Ginkgo biloba* (Klein, J. (755) 347)

Acetylcholine release; Autoinhibition; Cyclic GMP; Hippocampus; Nitric oxide (NO) (Suzuki, T. (760) 158)

Acetylcholine; Diffusion; Uptake; Caudate; Anterior thalamus; Agarose gel (Xin, Q. (776) 126)

Choline acetyltransferase
Thalamus; Lateralis medialis-suprageniculate nuclear complex; Pedunculopontine tegmental nucleus; GABA; Glutamate; Cat (Hoshino, K. (747) 151)

In vivo microdialysis; Basal forebrain; Alzheimer's disease; Aging (Gibbs, R.B. (749) 143)

Acetylcholine; Cholinergic; Choline transport; Phosphoprotein phosphatase (Cooke, L.J. (751) 232)

Parvalbumin; GABA; Septum; Diagonal band of Broca; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (753) 141)

p75NGFR; Nerve growth factor receptor; Immunocytochemistry; Alzheimer's disease (Gibbs, R.B. (757) 10)

Aging; Spinal cord; GM1 ganglioside; Cholinergic neuron; High-affinity choline transport; Hemicholinium-3 binding (Vogelsberg, V. (761) 250)

Aging; Acetylcholinesterase; Cholinergic enzymatic assay; Cephalopod; *Sepia officinalis*; Central nervous system (Bellanger, C. (762) 219)

Fluoro-Red; Forebrain; Retrograde tracer; Song control nucleus; Zebra finch (Li, R. (763) 239)

Nerve growth factor; Electroencephalography; Beta activity; Delta activity; Nucleus basalis of Meynert (Holschneider, D.P. (765) 228)

Sphenopalatine ganglion; Brainstem; Parasympathetic pathway; Retrograde tracing; Nitric oxide synthase (Zhu, B.-S. (769) 168)

Fetal spinal cord; Transplantation; Muscle reinnervation; Spinal neuron; Sciatic nerve; Axonal growth; Cholera toxin B (Katsuki, M. (771) 31)

NADPH diaphorase; Nitric oxide synthase; Retrograde axonal tracing; True blue; Sphenopalatine ganglion; Cerebral blood vessel (Kimura, T. (773) 117)

Cholinergic
Agonist; Antagonist; Medial preoptico-anterior hypothalamic area; Sleep; Thermoregulation; Wakefulness (Mallick, B.N. (750) 311)

Acetylcholine; Choline transport; Phosphoprotein phosphatase; Choline acetyltransferase (Cooke, L.J. (751) 232)

Excitotoxin; Anesthesia; Mesopontine; Locus coeruleus (Inglis, W.L. (755) 17)

Opioid receptor; Calcium channel; Calcium current; Basal forebrain; Acutely dissociated neuron (Soldo, B.L. (758) 118)

Hippocampus; Stress; Adrenocorticotropin; Corticosterone; Theta; Fear (Bhatnagar, S. (766) 244)

In vitro; Theta; GABAergic (Konopacki, J. (775) 91)

Antimuscarinic; Mesopontine; Hyperactivity; Dopaminergic; Psychosis (Mathur, A. (775) 144)

Cholinergic enzymatic assay
Aging; Choline acetyltransferase; Acetylcholinesterase; Cephalopod; *Sepia officinalis*; Central nervous system (Bellanger, C. (762) 219)

Cholinergic function
Glial cell line-derived neurotrophic factor; Parkinson's disease; Dopamine; Neurotrophic factor; Basal ganglia; Alzheimer's disease (Lapchak, P.A. (747) 92)

Cholinergic neurons
Aging; Spinal cord; GM1 ganglioside; Choline acetyltransferase; High-affinity choline transport; Hemicholinium-3 binding (Vogelsberg, V. (761) 250)

Rat; Perinatal lead exposure; Septohippocampal system; ChAT activity; ChAT immunocytochemistry; HC-3 binding; AChE histochemistry (Bourjeily, N. (771) 319)

Cholinergic system
Scopolamine; Physostigmine; Regional cerebral blood flow; Regional metabolism; Positron emission tomography; Monkey (Tsukada, H. (749) 10)

Cholinesterase inhibitor
Aging; Alzheimer's disease; Corticosterone (Dachir, S. (777) 251)

Choline transport
Acetylcholine; Cholinergic; Phosphoprotein phosphatase; Choline acetyltransferase (Cooke, L.J. (751) 232)

Chorda tympani
Taste; Bitter; Alkaloid; Glossopharyngeal; Multi-Dimensional Scaling (Dahl, M. (756) 22)

Insular cortex; Glossopharyngeal nerve; Superior laryngeal nerve; Convergence; Rat (Hanamori, T. (763) 267)

Mixture; Quinine; Sucrose; Taste; Suppression (Formaker, B.K. (772) 239)

Chorda tympani nerve
Adaptation; Temperature; Amiloride analog; Transduction (Lundy, Jr., R.F. (744) 309)

Behavioral experiment; Monellin; Sucrose; Taste cell; Thaumatin (Tonosaki, K. (748) 234)

Choreoathetosis
Movement disorder; Basal ganglia; Epilepsy; Motor system; Midbrain; Paroxysmal dyskinesia; Neural activity (Gernert, M. (760) 102)

Choroid plexus
Cerebral blood flow; Cerebrospinal fluid; Norepinephrine; Microsphere (Hathaway, C.A. (751) 344)

Ion transport; Cerebral edema (Javaheri, S. (754) 321)

Alzheimer's disease; Amyloid β-protein; Amyloid β-protein precursor; Amyloid angiopathy; Immunohistochemistry; Systemic amyloidosis (Sasaki, A. (755) 193)

Potassium; Hyperkalemia; Hypokalemia; Na^+/K^+-ATPase; Cotransport (Klarr, S.A. (758) 39)

Macrophage migration inhibitory factor; Tanycyte; Ependyma; Subcommissural organ (Nishibori, M. (758) 259)

Nucleoside; Specificity; Thymidine; Transport; Carrier-mediated; NBMPR; Blood-brain barrier (Thomas, S.A. (760) 59)

Adenosine; Guanosine; Thymidine; Nitric oxide synthase; L-NAME (Redžić, Z.B. (767) 26)

Zinc; Albumin; Nagase analbuminemic rat; Ventricle; Blood–cerebrospinal fluid barrier; Hydrocephalus (Takeda, A. (769) 193)

Christinus marmoratus
Lizard; Melatonin; Pineal organ; Circadian rhythm; Temperature; In vitro (Moyer, R.W. (747) 230)

Chromaffin cell
Adrenal medulla; PC12 cell; FGF-2 isoform; Glucocorticoid; Postnatal development; Rat (Meisinger, C. (757) 291)

Chromosome
Open field; Light/dark apparatus; Mapping; [^{3}H]Ro 15-1788 (Clément, Y. (752) 127)

Chronic block of nerve impulse conduction
Dexamethasone; Muscle inactivity; Neurotrophic control; Muscle extrajunctional membrane property; Tetrodotoxin-insensitive Na^+ channel; Tetrodotoxin (Pasino, E. (770) 242)

Chronic constriction injury
Dorsal horn; Galanin; Antibody microprobe; Spontaneous release (Colvin, L.A. (766) 259)

Chronic epilepsy
Kindling; Spontaneous seizure; Prolonged postictal convulsive state; Dominant focus; Mossy fiber sprouting (Timofeeva, O.A. (754) 227)

Chronic intermittent ethanol (CIE)
Intracellular free calcium; $^{36}Cl^-$ inflax; Ro15-4513; MK-801; Kindling (Hu, X.-J. (767) 228)

Chronic lithium
Excitotoxicity; Apoptosis; Neuroprotection; Polyamine (Sparapani, M. (765) 164)

Chronic model
Parkinson's disease; Slow evolution of disease; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Monkey (Bezard, E. (766) 107)

Chronic morphine
Hippocampus; Long-term potentiation (Mansouri, F.A. (769) 119)

Chronic pain
N-Methyl-D-aspartate (NMDA) receptor; Spinal cord; Adrenal medulla; Peripheral neuropathy; Neuropeptide (Siegan, J.B. (755) 331)

Tolerance; Allodynia; Intrathecal; Opioid; Spinal cord (Yu, W. (756) 141)

Chronic restraint stress
Dendritic atrophy; Entorhinal cortex; Hippocampus (Sunanda, (770) 302)

Chronic toxicity
Ibogaine; Purkinje cell; Optical dissector (Helsley, S. (759) 306)

Chronic treatment
Diazepam; Benzodiazepine; Postnatal exposure; Learning; Memory; Anxiety; Cerebral glucose utilization (Schroeder, H. (766) 142)

Chronobiology
Methylphenidate; Dose response; Psychomotor stimulant; Motor activity; Behavior; Diurnal rhythm (Gaytan, O. (777) 1)

Ciliary neurotrophic factor
Corticospinal motor neuron; Glial cell line-derived neurotrophic factor; Neurotrophins; Cell survival; Cell culture (Junger, H. (762) 56)

Axotomy; Cell death; Cytokine; Neuronal cell culture; Spinal cord injury; Trophic factor (Rosenberg, L.J. (775) 209)

Norepinephrine transporter; Tyrosine hydroxylase; Leukemia inhibitory factor; Retinoic acid; Superior cervical ganglia; PC12 cell (Matsuoka, I. (776) 181)

Cimetidine
Analgesia; Antinociception; Histamine; Opioid; H_1 receptor; H_2 receptor; H_3 receptor; SKF92374 (Li, B.Y. (748) 168)

Cingulate cortex
N-Methyl-D-aspartate receptor; Glycine antagonist; ACEA 1021; Neurotoxicity; Neuropathology; Retrosplenial cortex (Hawkinson, J.E. (744) 227)

Limbic cortex; D,L-Homocysteic acid; Autonomic nervous system (Fisk, G.D. (754) 204)

Circadian
Corticosterone; ACTH; Suprachiasmatic nucleus; Adrenal cortex; Stress; Paraventricular nucleus (Buijs, R.M. (758) 229)

SCN; NMDA; Glutamate; Phase shift; Hamster (Mintz, E.M. (758) 245)

Suprachiasmatic nucleus; GABA; Vasoactive intestinal peptide; Peptide histidine isoleucine; Gastrin-releasing peptide; Hamster (Gillespie, C.F. (759) 181)

Rhythm; Clock; Melatonin; Agonist; Mice; Syrian hamster (Van Reeth, O. (762) 185)

Circadian entrainment
Cone opsin; Immunocytochemistry; *Mesocricetus auratus*; Phase shift assay; RNA; Syrian golden hamster (Von Schantz, M. (770) 131)

Circadian rhythm
c-*fos*; *jun*-B; Aging; Light (Benloucif, S. (747) 34)

Caffeine; Bright light; Melatonin; Temperature; Adenosine; Sleep deprivation (Wright Jr., K.P. (747) 78)

Lizard; *Christinus marmoratus*; Melatonin; Pineal organ; Temperature; In vitro (Moyer, R.W. (747) 230)

Microdialysis; Somatostatin; Growth hormone; Food deprivation; Adenohypophysis (Ishikawa, M. (749) 226)

Rat; Estrous cycle; Feedback; Vasoactive intestinal peptide; Vasopressin (Van der Beek, E.M. (755) 101)

Suprachiasmatic nucleus; Median raphe; Serotonin; Locomotor activity; Entrainment (Meyer-Bernstein, E.L. (755) 112)

Serotonin (5-HT) syndrome; Central 5-HT_{1A} receptor; 8-OH-DPAT; Intracerebroventricular administration, chronopharmacology (Nagayama, H. (756) 92)

Suprachiasmatic nucleus; Pacemaker; Planar electrode array (Herzog, E.D. (757) 285)

Photoperiod; Melatonin; Cortisol; Human (Vondrašová, D. (759) 166)

Suprachiasmatic nucleus; Entrainment; Wheel running; Non-photic zeitgeber; Food restriction (Marchant, E.G. (765) 273)

Serotonin; Quipazine; Suprachiasmatic nucleus; Fos (Moyer, R.W. (765) 337)

Allopregnanolone; Brain; Mouse; Neurosteroid; Estrous cycle; 5α-Pregnane-3,20-dione; Pregnenolone sulfate; Progesterone (Corpéchot, C. (766) 276)

Suprachiasmatic nucleus; Brain slice; Whole-cell patch-clamp; H-current; Spontaneous firing; Spike afterhyperpolarization (De Jeu, M.T.G. (767) 72)

Non-photic; Entrainment; Serotonin; Suprachiasmatic nucleus; Mouse; Activity feedback; c-*fos*; 5,7-Dihydroxytryptamine (Bradbury, M.J. (768) 125)

Retinohypothalamic tract; Retinal ganglion cell; Hypothalamus; Lateral hypothalamic area; FluoroGold; Suprachiasmatic nucleus (Leak, R.K. (770) 105)

Food entrainment; Immediate early gene; Suprachiasmatic nucleus; Intergeniculate leaflet; Paraventricular thalamic nucleus (Challet, E. (770) 228)

Neuropeptide Y; γ-Aminobutyric acid; $GABA_A$; Tetrodotoxin; Suprachiasmatic nucleus (Huhman, K.L. (772) 176)

Melatonin; Pineal gland (Nakahara, K. (774) 242)

Chipmunk; Melatonin (Murakami, N. (775) 240)

Circadian system
Suprachiasmatic nucleus; Entrainment; AMPA; *N*-Methyl-D-aspartate; Neuropeptide Y; Strychnine (Schmahl, C. (746) 151)

Suprachiasmatic nuclei; Multiunit recording; In vivo; In vitro; Neurophysiology; Photic; Nonphotic (Meijer, J.H. (753) 322)

Circumventricular organ
Kidney; Sympathetic nervous system; Osmoregulation; Visceral receptor; Autonomic nervous system; Limbic system; Cardiovascular regulation (Solano-Flores, L.P. (753) 102)

Cirrhosis of the liver
Brain damage; Pathogenesis; Cerebral cortex; Human; mRNA; Quantitative RT/PCR (Lewohl, J.M. (751) 102)

c-*jun*
In situ hybridization; Restraint stress; Midazolam; NMDA; Serotonin; Hippocampus (De Oliveira, C.L. (753) 202)

Phenobarbital; Dependence; Withdrawal; MK-801 binding; c-*fos*; Activator protein-1 (Tanaka, S. (756) 35)

Clarke's nucleus
Adenovirus; β-Galactosidase; Gene transfer; Spinal cord; Immune response; Cyclosporin A; Red nucleus (Liu, Y. (768) 19)

Clathrin coated vesicle
Apolipoprotein E isoform; β-Amyloid; βA4 conjugate; βA4 oligomers/aggregates; Dimyristoyl phosphatidylcholine liposome; *Tau* (Berg, M.J. (752) 72)

Clathrin-coated vesicle
$GABA_A$ receptor; Benzodiazepine receptor (Tehrani, M.H.J. (776) 195)

Claustrum
Sensory zone; Cerebral cortex; Connection; Rat (Sadowski, M. (756) 147)

$^{36}Cl^-$ influx
Chronic intermittent ethanol (CIE); Intracellular free calcium; Ro15-4513; MK-801; Kindling (Hu, X.-J. (767) 228)

Clock
Circadian; Rhythm; Melatonin; Agonist; Mice; Syrian hamster (Van Reeth, O. (762) 185)

Clomethiazole
Ischemia; Gerbil; Neuroprotection (Liang, S.-P. (751) 189)

Cloned octopamine/tyramine receptor
Drosophila melanogaster; *Xenopus* oocyte expression; Calcium; Antisense oligonucleotide; G-protein coupling (Reale, V. (769) 309)

Clonidine
Imidazoline receptor; α_2-Adrenoceptor; Microdialysis; Norepinephrine; Dopamine; Rat (Meana, J.J. (744) 216)

Isolation-rearing; Noradrenaline; α_2-Adrenoceptor; Idazoxan; Hippocampus; Hypothalamus; Rat (Fulford, A.J. (748) 93)

Noradrenaline; Locus coeruleus; Prefrontal cortex; NMDA; Kainate; Carbachol; Microdialysis (Van Gaalen, M. (763) 56)

Clorgyline
Monoamine oxidase; Deprenyl; Tyramine; Serotonin; β-Phenylethylamine; Locus coeruleus; Dorsal raphe nucleus (Arai, R. (745) 352)

Closed head injury
Hypoxia; Vulnerability; Hippocampus; Glutamate; γ-Aminobutyric acid; Microdialysis (Katoh, H. (758) 153)

Clostridial neurotoxin
Bradykinin; Astrocyte; Glutamate release; Synaptobrevin; SNAP-25; Syntaxin; Rat (Jeftinija, S.D. (750) 41)

Clozapine
Dopamine receptor; Raclopride; Reinforcement; Self-stimulation; UH232 (Nakajima, S. (760) 74)

Quantitative receptor autoradiography; [^{3}H]MK801; *N*-Methyl-D-aspartate (NMDA) receptor; Rat (Giardino, L. (762) 216)

Deoxyglucose; Limbic system; Haloperidol; Extrapyramidal; Nucleus accumbens (Colangelo, V. (768) 273)

Clusterin
Estradiol neurotoxicity; β-Endorphin; Sulfated glycoprotein 2 (SGP-2); Medial preoptic area (MPOA); Deafferentation (Wener, K.M. (745) 37)

C57 mouse
DBA mouse; Oxiracetam; Aniracetam; AMPA antagonist; NMDA antagonist; Contextual fear conditioning (Lu, Y. (768) 197)

CNQX
Oxidative stress; Parkinson's disease; Rotenone; Antioxidant; MK-801 (Nakao, N. (777) 202)

CNS
Axonal regeneration; GAP-43; Axotomy; Injury; Cortical neuron (Elliott, E.J. (755) 221)

Cytokine; Spinal cord injury; Contusion; mRNA; ELISA (Wang, C.X. (759) 190)

CNS neuron
LDL; Oxidized LDL; Oxidation response; Neurotoxicity; Apoptosis; Scavenger receptor (Sugawa, M. (761) 165)

CO
Extracellular pH; HEPES buffer; Hypoxia; Intracellular pH; Proton pump (Osanai, S. (764) 221)

Cocaine
Single-unit recording; Dopamine; SCH 23390; Apomorphine; Substantia nigra; Ventral tegmental area (Lee, T.H. (744) 293)

3,4-Methylenedioxymethamphetamine (MDMA); D-Amphetamine; Methysergide; Self-stimulation; Performance; Reinforcement; 5-HT (Lin, H.Q. (744) 351)

Behavioral sensitization; Drug abuse; Nitric oxide; Stereotypy; Stimulant (Haracz, J.L. (746) 183)

Vesicular monoamine transporter; Human brain; Striatum; Autoradiography (Staley, J.K. (747) 219)

Dopamine transporter; Sensitization; mRNA; In situ hybridization histochemistry; Autoradiography; Rat (Letchworth, S.R. (750) 214)

Ventral pallidum; Microdialysis; Dopamine; 6-Hydroxydopamine; Conditioned place preference; Locomotion; Nucleus accumbens (Gong, W. (754) 103)

Newborn; Cerebral blood flow; Carbon dioxide; Asphyxia; Hypoxia (Feuer, P. (755) 142)

Self-stimulation; Reward; Adrenalectomy; Corticosterone (Abrahamsen, G.C. (755) 156)

Lidocaine; Local anesthetic; Seizure; Dextromethorphan; 6,7-Dinitroquinoxaline-2,3-dione; NMDA (Barat, S.A. (756) 179)

Nucleus accumbens; Psychomotor stimulant; Single neuron recording; Self-administration; Appetitive behavior; Incentive stimulus; Reward (Peoples, L.L. (757) 280)

Brain stimulation reward; Dizocilpine; Dopamine; Drug of abuse; MK-801; NMDA receptor; Reinforcement; Reward; Self-stimulation (Ranaldi, R. (760) 231)

Motor behavior; Psychomotor stimulant; Single unit recording; Striatum; Rat (Pederson, C.L. (760) 261)

Cholecystokinin; Conditioned activity; Locomotion; Devazepide; L-365,260; PD-140548; Reward-related learning; Nucleus accumbens (Josselyn, S.A. (763) 93)

Extracellular recording; Single neuron; Nucleus accumbens; Subterritory; Shell; Core; Rat; Intravenous self-administration (Uzwiak, A.J. (767) 363)

N-Methyl-D-aspartate; Sensitization; Ventral tegmental area (Schenk, S. (769) 225)

Local anesthetic toxicity; Seizure; γ-Aminobutyric acid receptor/channel; Whole cell $GABA_A$ current; Patch clamp; Hippocampal neuron (Ye, J.H. (770) 169)

Dopamine transporter; Norepinephrine transporter; Prefrontal cortex; Stress (Meiergerd, S.M. (773) 203)

Conditioned place preference; Protein kinase A; Protein kinase C; H7; Chelerythrine; H89 (Cervo, L. (775) 30)

Lidocaine; Convulsion; Spermidine; *N*-Methyl-D-aspartate receptor (Shimosato, K. (775) 198)

Cocaine plasma levels
Pharmacogenetics; Inbred strains; Operant responding; Drug reinforcement; Vulnerability to drug abuse (Kosten, T.A. (778) 418)

Cochlea
Deafness; AMPA; Dendritic swelling; Neurite regeneration; Plasticity; Protein kinase C (Lerner-Natoli, M. (749) 109)

Reversible ischemia; Reperfusion; Blood flow; Otoacoustic emission (Mom, T. (751) 20)

P-glycoprotein; Immunohistochemistry; Inner ear; Vestibule; Blood–inner ear barrier; Blood–brain barrier; Western blotting (Saito, T. (767) 388)

Cochlear nucleus
Trk protein distribution; Auditory system central anatomy; Distribution (Burette, A. (776) 10)

Cochleo-saccular degeneration
Apoptosis; Programmed cell death; Aging; Inner ear; Mouse (Usami, S.-i. (747) 147)

Co-contraction
Motor control; Posture; Movement; Hemiplegia (Levin, M.F. (757) 43)

Coculture
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Coding
Chemoreception; Mixture; Binding; Crustacea; *Panulirus* (Burgess, M.F. (771) 292)

Coexistence
Cholecystokinin; Dopamine; Microdialysis; Nucleus accumbens; Caudate; Putamen (Maidment, N.T. (747) 290)

Dopamine β-hydroxylase; Gamma-aminobutyric acid; Bulbospinal axon; Immunofluorescence; Confocal microscopy (Patel, R. (749) 164)

Co-expression
Corticotropin-releasing factor; CRF-binding protein; Hippocampus; Kindling; Neuropeptide Y; Cholecystokinin (Smith, M.A. (745) 248)

Cognition
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Aging; Alzheimer's disease; Astrocyte; Cysteamine; Hippocampus; Inclusions; Locomotion; Somatostatin (Justino, L. (761) 127)

Cognition enhancer
cAMP; G-protein; Pertussis toxin; Cholera toxin; Metabotropic glutamate receptor (Oka, M. (754) 121)

Cognition enhancing
Nootropic; Memory; Aging; Alzheimer's disease (Woodruff-Pak, D.S. (747) 207)

Coherence
Adult rat; Phrenic nerve; Recurrent laryngeal nerve; High frequency oscillations; Medium frequency oscillations; Urethane; Barbiturate (Kocsis, B. (745) 309)

Sympathetic nerve discharge; Medullary neuron; Correlation; 8- to 13-Hz rhythm; Rostral para-ambiguual field; Rostral caudal ventrolateral medulla (Dempesy, C.W. (768) 102)

Colchicine
Learning; Memory; Glutamate; GABA; $GABA_B$ receptor; $GABA_B$ receptor antagonist; Alzheimer's disease (Yu, Z.F. (750) 53)

PTHrP; Hypothalamus; Intracellular Ca^{2+} concentration; Immunohistochemistry; Rat (Tokunaga, M. (774) 216)

Forebrain ischemia; Hippocampus; Delayed neuronal death; CA1 neuron; Rat (Kimura, M. (774) 229)

Cold acclimatization
Scrotal thermal stimulation; VMH warm and cold responsive neuron; Thermoresponsiveness; Neuronal adaptation (Li, Q. (770) 18)

Cold-sensitive neuron
Diagonal band of Broca; Warm-sensitive neuron; Thermosensitivity; Wakefulness; Non rapid eye movement sleep (Alam, Md.N. (752) 81)

Cold water swimming stress
Antinociception; Calcium channel; Calmodulin; Calcium/calmodulin dependent protein kinase II (Suh, H.W. (767) 144)

Collagen
Heparan sulphate proteoglycan; Laminin; Fibronectin; Murine (Coulson, E.J. (770) 72)

Collateral
Cerebellum; Autonomic nervous system; Behavior; Blood pressure; Axonal tracer (Ruggiero, D.A. (760) 272)

Colloidal gold
Ultrastructure; Transferrin; Blood–brain barrier; Brain endothelial cell; Transcytosis (Van Gelder, W. (746) 105)

Co-localization
Hippocampus; Calretinin; Nicotinamide adenine dinucleotide phosphate diaphorase; Nitric oxide (Megías, M. (744) 112)

GABA; Interneuron; VIP; Calretinin; Calbindin D28k (Kubota, Y. (752) 175)

Double labeling; Calbindin; Parvalbumin; Tyrosine hydroxylase; γ-Aminobutyric acid (Völgyi, B. (763) 79)

Commissural nucleus
Baroreceptor reflex pathway; Sympathetic nervous system; Vagus; Central cardiovascular reflex pathway (Ciriello, J. (749) 35)

Commissure
Testosterone; Steroid; Androgen; Corpus callosum; Interhemispheric; Human (Moffat, S.D. (767) 297)

Common marmoset
Dopamine turnover; Striatum; Caudate; Putamen; Monkey; MPTP (Nomoto, M. (767) 235)

Communication
Limbic system; Vocalization; Primate brain; Neuroethology; Development (Newman, J.D. (758) 180)

Compartmentation
Nuclear magnetic resonance; Brain; Glucose; ^{13}C; Neuron; Astrocyte; Tricarboxylic acid cycle (TCA) cycle (Aureli, T. (765) 218)

Competitive antagonism
κ-Opioid receptor agonist; U-50,488H; Analgesia; Hypothermia; Tolerance; NMDA receptor antagonist; LY235959 (Bhargava, H.N. (747) 246)

Competitive inhibition
Neuromodulation; Pregnenolone sulfate; Glycine receptor; Cultured spinal neuron; Patch clamp (Wu, F.-S. (750) 318)

Competitive polymerase chain reaction
Cytochrome *P*-450; Sex steroid; Testosterone; Progesterone; Induction; Suppression (Baum, L.O. (765) 67)

Complex I
MPTP; Oxidative stress; Glutathione; Reactive oxygen species; Brain slice; Brain; Neurotoxicity (Sriram, K. (749) 44)

Mitochondrion; Parkinson's; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Basal ganglion; NADPH-diaphorase; Substantia nigra (Ferrante, R.J. (753) 157)

Complex I inhibitor
Mitochondria; Free radical; Apoptosis; Parkinson's disease (Seaton, T.A. (777) 110)

Computerized morphometry
Cryopreservation; Culture; Cerebral cortex; Mesencephalon; γ-Aminobutyric acid; Principal component analysis (Petite, D. (747) 279)

COMT inhibitors: CGP 28014, OR-611, Ro 40-7592
Positron emission tomography; 6-[^{18}F]Fluoro-L-DOPA; 3-*O*-Methyl-6-[^{18}F]fluoro-L-DOPA; Aromatic amino acid decarboxylase; Carbidopa; Catechol-*O*-methyltransferase (Psylla, M. (767) 45)

Conditioned activity
Cholecystokinin; Locomotion; Devazepide; L-365,260; PD-140548; Cocaine; Reward-related learning; Nucleus accumbens (Josselyn, S.A. (763) 93)

Conditioned emotional response
Bed nuclei of the stria terminalis; Corticotropin-releasing hormone; γ-Aminobutyric acid (GABA); Long-term modulation; Neuropeptide; Parabrachial nucleus (Petrovich, G.D. (763) 247)

Frontal cortex; Medial prefrontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; Learning; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Reversal; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

Conditioned place preference
δ Opioid receptor; Reward; Dopamine turnover; Mesolimbic dopamine system (Suzuki, T. (744) 327)

Ventral pallidum; Microdialysis; Dopamine; Cocaine; 6-Hydroxydopamine; Locomotion; Nucleus accumbens (Gong, W. (754) 103)

Cocaine; Protein kinase A; Protein kinase C; H7; Chelerythrine; H89 (Cervo, L. (775) 30)

Conditioning
Learning; Memory; Instrumental; Neuron; Excitability (Tsitolovsky, L.E. (745) 271)

Fear; Calcium; Hippocampus; Thalamus; Glutamate; Diacylgylcerol (DAG) (Shors, T.J. (750) 293)

Conditioning taste aversion
Behavioral recovery; Free moving microdialysis; Neural transplantation; Glutamate; Gustatory cortex (Miranda, M.I. (759) 141)

Cone opsin
Circadian entrainment; Immunocytochemistry; *Mesocricetus auratus*; Phase shift assay; RNA; Syrian golden hamster (Von Schantz, M. (770) 131)

Confocal laser microscopy
$GABA_A$ receptor; NMDA receptor; Pseudorabies virus; Immunofluorescence; Dorsal motor nucleus of the vagas nerve; Rat (Broussard, D.L. (763) 123)

Ca^{2+} oscillation; Glutamate; Neurotrophic factor; Neuronal plasticity (Sakai, N. (778) 318)

Confocal laser scanning microscopy
NO; Fish; Neuronal messenger; Synaptic transmission; Central nervous system; Electron microscopy (Holmqvist, B. (745) 67)

Confocal microscopy
Dopamine β-hydroxylase; Gamma-aminobutyric acid; Bulbospinal axon; Coexistence; Immunofluorescence (Patel, R. (749) 164)

Ca^{2+} channel; Ischemia; Hippocampus; Electrophysiology; Cell death (Small, D.L. (753) 209)

Immunocytochemistry; Angiotensin receptor; Paraventricular nucleus; Supraoptic nucleus; Cytoplasmic staining; Rat (Pfister, J. (754) 307)

Sympathetic preganglionic neuron; Electron microscopy; Synaptic transmission; Volume transmission (Pollock, R. (777) 22)

Muscarinic receptor; Intracerebral blood vessel; Immunofluorescence; Endothelium; Smooth muscle (Badaut, J. (778) 25)

Conjunctival epithelium
Corneal epithelium; Limbal epithelium; Proliferation; Opioid; Naltrexone; [Met^5]-enkephalin; Cell renewal; Eye (Zagon, I.S. (759) 92)

Connection
Claustrum; Sensory zone; Cerebral cortex; Rat (Sadowski, M. (756) 147)

Connexin
Retina; Gap junction; Electrical synapse; Immunoblot; Immunohistochemistry; Cx43; Müller cell (Giblin, L.J. (755) 146)

Conopeptide
Focal ischemia; Calcium channel; Neuroprotection; Calcium channel blocker (Bowersox, S.S. (747) 343)

Conotoxin
Aging; Hippocampus; Field potential; Calcium channel type; Synaptic transmission; Agatoxin (Hall, S.C. (745) 339)

ω-Conotoxin GVIA
Dopamine; Ischemia; Voltage-gated calcium channel; Striatum; Neomycin; ω-Agatoxin IVA (Toner, C.C. (748) 85)

Conscious rat
Prostaglandin; Sleep deprivation; Cerebrospinal fluid; Subarachnoid space; Basal forebrain; Stress; Brain temperature (Ram, A. (751) 81)

Consolidation
Ventral hippocampus; Passive avoidance; Acquisition; Retrieval; Tetrodotoxin functional inactivation (Ambrogi Lorenzini, C.G. (768) 242)

Contactin
Neural cell adhesion molecule; L1 antigen; Cell recognition molecule; Cerebrospinal fluid; Schizophrenia (Poltorak, M. (751) 152)

Contextual fear conditioning
DBA mouse; C57 mouse; Oxiracetam; Aniracetam; AMPA antagonist; NMDA antagonist (Lu, Y. (768) 197)

Continence
Brainstem; Descending system; Lumbosacral reflex; Defecation (Holmes, G.M. (759) 197)

Control of breathing
Spontaneous augmented breath; Post-inspiratory neuron; Post-inspiratory inspiratory activity; Medulla; Diaphragm electromyogram; Single unit recording (Takeda, M. (758) 218)

BCECF; Central chemoreceptor; Dissociated cell culture; γ-Aminobutyric acid (GABA); Glutamate; Respiration (Sugama, S. (777) 95)

Contusion
Cytokine; CNS; Spinal cord injury; mRNA; ELISA (Wang, C.X. (759) 190)

Convergence
Insular cortex; Chorda tympani; Glossopharyngeal nerve; Superior laryngeal nerve; Rat (Hanamori, T. (763) 267)

Convertase
Thyrotropin releasing hormone (TRH); Biosynthesis; Processing; PC1; PC2; Hybridization, in situ; Hypothalamus; Paraventricular nucleus (Sánchez, E. (761) 77)

Converting enzyme inhibitors
Fos; Drinking; Subfornical organ; Organum vasculosum of the lamina terminalis; AT_1 antagonist; Angiotensin (McKinley, M.J. (747) 43)

Convulsion
Excitatory amino acid; Kunming mouse; Excitotoxicity; Late stage of pregnancy; Mouse fetal brain; Y-maze discrimination learning; Spatial learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Mouse; Electron microscopy; Immunocytochemistry; Glutamate; γ-Aminobutyric acid (GABA); Hippocampus (Buckman, J.F. (760) 193)

Brain injury; Lidocaine; Local anaesthetic; Survival rate; Mouse (Endoh, H. (767) 136)

Cocaine; Lidocaine; Spermidine; *N*-Methyl-D-aspartate receptor (Shimosato, K. (775) 198)

Core
Extracellular recording; Single neuron; Nucleus accumbens; Subterritory; Shell; Rat; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Electrolytic lesion; Nucleus accumbens; Shell; Sensorimotor gating; Startle reflex (Kodsi, M.H. (773) 45)

CO_2 reactivity
Laser-Doppler flowmetry; Cerebral blood flow; Iodoantipyrine; 5-Hydroxytryptamine$_{1A}$ receptor (Bonvento, G. (767) 208)

Corneal epithelium
Limbal epithelium; Conjunctival epithelium; Proliferation; Opioid; Naltrexone; [Met^5]-enkephalin; Cell renewal; Eye (Zagon, I.S. (759) 92)

Corpus callosum
Testosterone; Steroid; Androgen; Commissure; Interhemispheric; Human (Moffat, S.D. (767) 297)

Learned bilateral blinking; Blink onset; Side superiority; Bilateral coupling; Temporal bilateral coordination; Split-brain; Cat (Spidalieri, G. (770) 30)

Corpus striatum
Dopamine; Catalepsy; *N*-Methyl-D-aspartate receptor; Substantia nigra (Özer, H. (777) 51)

Correlation
Sympathetic nerve discharge; Medullary neuron; Coherence; 8- to 13-Hz rhythm; Rostral para-ambiguual field; Rostral caudal ventrolateral medulla (Dempesy, C.W. (768) 102)

Cortex
Electrophysiology; Pain; Nociception; Modulation; Visceral sensation (Brüggemann, J. (756) 297)

Amphetamine; Dopamine; Glutamate; γ-Aminobutyric acid; Calcium-channel blockers; Protein-synthesis inhibitor; Behavioral sensitization (Karler, R. (757) 228)

Tryptophan-free diet; Avoidance learning; Radial-arm maze; Hippocampus; Serotonin release (Stancampiano, R. (762) 269)

Nestin; Intermediate filament; Reactive astrocyte; Infarction; Ischemia (Duggal, N. (768) 1)

Cerebral ischemia; Lipid peroxidation; Iron (Kondo, Y. (772) 37)

Somatosensory plasticity; Nerve injury; Primate cuneate nucleus; Brainstem mapping; Denervation (Xu, J. (774) 211)

Cortical arousal
Cerebral blood flow; Hypercapnia; Nitric oxide; Adenosine; Caffeine; Electrocorticogram (Estevez, A.Y. (758) 1)

Basal forebrain; Urethane-anesthetized rat; Unit recording; Electroencephalogram; Low-voltage fast activity; Slow wave (Détári, L. (759) 112)

Cortical blood volume
Cortical metabolism; Oscillation; Cytochrome aa_3; Spectrophotometry; Interhemispheric (Vern, B.A. (775) 233)

Cortical cell
β-Amyloid; Oxidative stress; Lazaroid (Lucca, E. (764) 293)

Cortical contusion
Diffuse axonal injury; Learning acquisition; Memory retention; Water maze; Hippocampus; Entorhinal cortex (Yamaki, T. (752) 151)

Amphetamine; Cerebral glucose utilization; Traumatic brain injury; Remote functional depression (Queen, S.A. (777) 42)

Cortical cultures
Melatonin; Neuroprotection; Ischaemia; NMDA (Cazevieille, C. (768) 120)

Cortical metabolism
Cortical blood volume; Oscillation; Cytochrome aa_3; Spectrophotometry; Interhemispheric (Vern, B.A. (775) 233)

Cortical neuron
Alzheimer's disease; Amyloid β protein; Ca^{2+} uptake; Chlorpromazine; Neurotoxicity; PC12 cell; Phenothiazine (Ueda, K. (748) 184)

Protein phosphatase; Calcineurin; Glutamatergic synapse; Calyculin; Microcystin; Cyclosporine A; FK506 (Thomas, G.D. (749) 101)

Metabotropic glutamate receptor; DCG-IV; NMDA receptor; CCG derivative; Depolarization (Uyama, Y. (752) 327)

Axonal regeneration; GAP-43; Axotomy; Injury; CNS (Elliott, E.J. (755) 221)

Phosphate transport; Inorganic phosphate; ATP; NADPH; Pentose phosphate; Energy metabolism (Glinn, M. (757) 85)

Cytoskeleton; Tau protein; Calcium; Okadaic acid; Phosphatase 1/2A; Cerebellar granule cell (Adamec, E. (757) 93)

Brain injury; Brain ischemia; Equilin; Estradiol; Free radical; Glutamate; Lipid peroxidation (Regan, R.F. (764) 133)

Cortical plasticity
Learning; Magnetoencephalography (MEG); Magnetic source imaging (MSI); Auditory discrimination; Primary auditory cortex; Association auditory cortex (Cansino, S. (764) 53)

Cortical reorganization
Neuronal plasticity; Extracellular recording; Single unit activity; Activity pattern (Webster, H.H. (750) 109)

Cortical spreading depression
Coupling; Glucose; Cytochrome *aa*3; Hemoglobin; Hypercapnia; Laser Doppler; Near-infrared spectroscopy; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Cortical stimulation
Seizure activity; Seizure pattern; Ictal behavior; Kindling (Della Paschoa, O.E. (770) 221)

Cortical wedge
GABA; DBA/2 mouse; Glutamate (Hu, R.Q. (753) 260)

Corticobasal degeneration
Ultrastructure; Paired helical filament; Alzheimer disease; Vanadate; Transmission electron microscopy (Tracz, E. (773) 33)

Corticocuneate terminal
Cuneate nucleus; Glycine-immunoreactive neuron; Horseradish peroxidase (HRP); Immunoperoxidase (Lue, J.-H. (771) 167)

Corticogenesis
Hypoxia; Cell death; Apoptosis; Cerebral cortex; Development (Stewart, W.B. (760) 17)

Corticospinal motor neuron
Ciliary neurotrophic factor; Glial cell line-derived neurotrophic factor; Neurotrophins; Cell survival; Cell culture (Junger, H. (762) 56)

Corticospinal tract
Short-term synchronization (Semmler, J.G. (767) 314)

Corticosteroid
Adrenalectomy; Glucocorticoid; Immunohistochemistry; Western blot (Okuhara, D.Y. (745) 144)

Calpain; Inhibitor; Spinal cord; Neurofilament; Myelin basic protein; Neuroprotection (Banik, N.L. (748) 205)

Corticosteroid receptor
Corticotropin releasing hormone; Adrenocorticotropic hormone; Corticosterone; Paraventricular nucleus; Hippocampus; C-*fos* (Takemura, T. (767) 181)

Corticosterone
Microdialysis; Formalin test; Restraint; Open field; Behavior (Aloisi, A.M. (748) 219)

Mouse; Lateralization; Paw preference; Restraint (Neveu, P.J. (749) 344)

Self-stimulation; Cocaine; Reward; Adrenalectomy (Abrahamsen, G.C. (755) 156)

ACTH; Suprachiasmatic nucleus; Adrenal cortex; Circadian; Stress; Paraventricular nucleus (Buijs, R.M. (758) 229)

Development; Critical period; Prenatal stress; Postnatal stress; Rhythm (Koehl, M. (759) 317)

Serotonin; Stress; Microdialysis; Striatum; Hippocampus (Kirby, L.G. (760) 218)

Adrenocorticotropin (ACTH); Adrenocorticotropin; Corticotropin releasing factor; Corticotropin releasing hormone; Vasopressin; Estradiol; Testosterone (Ogilvie, K.M. (766) 19)

Hippocampus; Cholinergic; Stress; Adrenocorticotropin; Theta; Fear (Bhatnagar, S. (766) 244)

Corticotropin releasing hormone; Adrenocorticotropic hormone; Corticosteroid receptor; Paraventricular nucleus; Hippocampus; C-*fos* (Takemura, T. (767) 181)

Learning; Memory; Glucocorticoid; Metyrapone; Aminoglutethimide; Passive avoidance; Chick (Loscertales, M. (769) 357)

Peripheral benzodiazepine receptor; Central benzodiazepine receptor; Estradiol; Progesterone; Steroidogenesis (Weizman, R. (772) 203)

Streptozotocin diabetes; Serotonin release; Microdialysis; Serotonin metabolism; Restraint; Elevated plus maze; Anxiety; Locomotor activity (Thorré, K. (772) 209)

Nitric oxide synthase; N^G-nitro-L-arginine methyl ester; Hypothalamic–pituitary–adrenal axis; Adrenocorticotropic hormone; Immobilization stress (Tsuchiya, T. (776) 68)

Aging; Alzheimer's disease; Cholinesterase inhibitor (Dachir, S. (777) 251)

Corticotropin
Stress; Vasopressin; Sensitization; Acoustic startle reflex (Pelton, G.H. (778) 381)

Corticotropin-like intermediate lobe peptide, $ACTH_{18-39}$
Stress; Slow-wave sleep; Paradoxical sleep; Radioimmunoassay; Rat (Bonnet, C. (751) 54)

Corticotropin-releasing factor
Ethanol; Paraventricular nucleus; Hypothalamic-pituitary-adrenal axis; Supraoptic nucleus; Amygdala (Ogilvie, K.M. (744) 83)

CRF-binding protein; Hippocampus; Kindling; Co-expression; Neuropeptide Y; Cholecystokinin (Smith, M.A. (745) 248)

N-Methyl-D-aspartate (NMDA); Non-NMDA; DL-2-Amino-5-phosphonovaleric acid (APV); REM behavior disorder; Periodic leg movement; Nucleus magnocellularis (Lai, Y.Y. (745) 265)

Forced swimming test; Brown-Norway rat; Fisher 344 rat; Lewis rat; Spontaneously hypertensive rat; Wistar-Kyoto rat; Depression (Lahmame, A. (750) 285)

Stress; Estrogen; Androgen; Proenkephalin; Hybridization, in situ; C-*fos*; Paraventricular nucleus; Hypertonic saline; Novelty heteronuclear RNA (Yukhananov, R.Y. (764) 109)

Adrenocorticotropin (ACTH); Adrenocorticotropin; Corticosterone; Corticotropin releasing hormone; Vasopressin; Estradiol; Testosterone (Ogilvie, K.M. (766) 19)

Corticotropin releasing factor receptor; Seizure model; Selective antagonist; Electroencephalogram; Limbic epilepsy (Baram, T.Z. (770) 89)

Blood pressure; Electrophysiology; Locus coeruleus; Spontaneously hypertensive rat; Wistar–Kyoto rat (Conti, L.H. (774) 27)

Ihara's genetically epileptic rat; Neuropeptide Y; Somatostatin; Epilepsy (Takahashi, Y. (776) 255)

Corticotropin-releasing factor (CRF) antagonist
Astressin; Seizure; Neuron loss; Hippocampus (Maecker, H. (744) 166)

Corticotropin releasing factor immunoreactive neuron
Bed nucleus of stria terminalis; Pituitary adenylate cyclase activating polypeptide immunoreactive axon terminal; Vasoactive intestinal polypeptide immunoreactive axon terminal; Immunohistochemistry; Electron microscopy; Rat (Kozicz, T. (767) 109)

Corticotropin releasing factor receptor
Corticotropin releasing factor; Seizure model; Selective antagonist; Electroencephalogram; Limbic epilepsy (Baram, T.Z. (770) 89)

Corticotropin-releasing hormone
Bed nuclei of the stria terminalis; Conditioned emotional response; γ-Aminobutyric acid (GABA); Long-term modulation; Neuropeptide; Parabrachial nucleus (Petrovich, G.D. (763) 247)

Adrenocorticotropin (ACTH); Adrenocorticotropin; Corticosterone; Corticotropin releasing factor; Vasopressin; Estradiol; Testosterone (Ogilvie, K.M. (766) 19)

Splanchnic nerve; Spinal cord; Sympathetic column; Fluorogold; Adrenal (Li, C. (767) 87)

Adrenocorticotropic hormone; Corticosterone; Corticosteroid receptor; Paraventricular nucleus; Hippocampus; C-*fos* (Takemura, T. (767) 181)

Pituitary adenylate cyclase-activating peptide; Hypothalamic paraventricular nucleus; In situ hybridization; Hypothalamo-pituitary-adrenocortical axis (Grinevich, V. (773) 190)

Cortisol
Athymic; BALB/c; Mice; Microglia; Lectin; Mac-1; Thymosin α1 (Htain, W.-W. (755) 63)

Circadian rhythm; Photoperiod; Melatonin; Human (Vondrašová, D. (759) 166)

Cortistatin-14
Neuropeptide; Memory; Mice (Flood, J.F. (775) 250)

Cotransport
Choroid plexus; Potassium; Hyperkalemia; Hypokalemia; Na^+/K^+-ATPase (Klarr, S.A. (758) 39)

Coupling
Cortical spreading depression; Glucose; Cytochrome *aa*3; Hemoglobin; Hypercapnia; Laser Doppler; Near-infrared spectroscopy; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Covert orienting
Sensorimotor; Neglect; Paw reaching (Ward, N.M. (775) 81)

CPP32
Polyamine; Spermine; Cerebellar granule cell; Apoptosis; *N*-Methyl-D-aspartate receptor; Caspase (Harada, J. (753) 251)

Creatine
Magnetic resonance spectroscopic imaging; Diffusion-weighted imaging; *N*-Acetylaspartate; Choline; Rat brain; Kainate; Epilepsy (Tokumitsu, T. (744) 57)

CREB
Amphetamine; c-Fos; Fos related antigen; Sensitization; Psychostimulant (Turgeon, S.M. (749) 120)

CRF antagonist
Fos; Paraventricular nucleus of the hypothalamus; Capsaicin; Abdominal surgery; Nucleus tractus solitarii; Supraoptic nucleus (Bonaz, B. (748) 12)

CRF-binding protein
Corticotropin-releasing factor; Hippocampus; Kindling; Co-expression; Neuropeptide Y; Cholecystokinin (Smith, M.A. (745) 248)

CRF system
Social isolation stress; Ethanol; Pentobarbital; Chloral hydrate; $GABA_A$/benzodiazepine receptor complex (Matsumoto, K. (753) 318)

Crista
Vestibular; Efferent; Nicotinic acetylcholine receptor; RT-PCR; Scarpa's ganglion; Hair cell; Macula (Anderson, A.D. (778) 409)

Critical brain temperature
Neuronal thermosensitivity; Anterior hypothalamus; Temperature guardian neuron; Two-tier theory (Basta, D. (767) 361)

Critical period
Development; Prenatal stress; Postnatal stress; Corticosterone; Rhythm (Koehl, M. (759) 317)

Crustacea
Opioid receptor subtype; Enkephalin; Radioligand binding; Eyestalk ganglion (Hanke, J. (744) 279)

Immunocytochemistry; Dopamine; Substance P; FMRFamide; Brain; Olfaction (Schmidt, M. (752) 15)

Carcinus maenas; Adult neurogenesis; Brain; Olfactory pathway; 5-Bromo-2′-deoxyuridine; BrdU; Neuron number (Schmidt, M. (762) 131)

Chemoreception; Mixture; Binding; Coding; *Panulirus* (Burgess, M.F. (771) 292)

Cryopreservation
Culture; Cerebral cortex; Mesencephalon; γ-Aminobutyric acid; Computerized morphometry; Principal component analysis (Petite, D. (747) 279)

Culture; Mesencephalon; Dopaminergic neuron; Dendritic morphometry; Axonal morphometry (Petite, D. (769) 1)

C-terminus antibody
Alzheimer's disease; Apolipoprotein E; Amyloid β protein; Amyloid deposition; N-terminus antibody (Aizawa, Y. (768) 208)

Culture
Cryopreservation; Cerebral cortex; Mesencephalon; γ-Aminobutyric acid; Computerized morphometry; Principal component analysis (Petite, D. (747) 279)

Fura-2-release assay; Glutamate neurotoxicity; Neuron; Platelet-activating factor (PAF) (Nogami, K. (754) 72)

Cryopreservation; Mesencephalon; Dopaminergic neuron; Dendritic morphometry; Axonal morphometry (Petite, D. (769) 1)

Glutamate; L-DOPA; Neuroprotection; Neurotoxicity; Release; Striatum (Maeda, T. (771) 159)

Cultured astrocyte
Calcium channel; 5-HT_{2A}; Intracellular calcium; sK_{Ca} channel (Jalonen, T.O. (758) 69)

Cultured hippocampal neuron
Vasoactive intestinal polypeptide; GABAergic inhibitory postsynaptic current; cAMP; Forskolin; Whole-cell patch-clamp recording (Wang, H.-L. (746) 294)

Polyamine; Axotomy; Neurite regeneration; Structure–activity relationship (Abe, K. (766) 281)

Cultured hippocampal neurons
Pregnenolone sulfate; Neurosteroid; Whole-cell patch clamp recording; γ-Aminobutyric acid; Spontaneous release; Presynaptic action (Teschemacher, A. (772) 226)

Cultured monolayer
Brain endothelium; Permeability; Cytoskeleton; Pyrithiamine (Romero, I.A. (756) 133)

Brain endothelium; Cytoskeleton; Permeability; Cyclic AMP (Rist, R.J. (768) 10)

Cultured rat cerebellar granule cell
Cyanide generation; Rat pheochromocytoma cell; Opiate receptor; Rat brain (Borowitz, J.L. (768) 294)

Cultured septal neuron
Furosemide; $GABA_A$ receptor; Glycine receptor; Patch-clamp (Kumamoto, E. (776) 246)

Cultured spinal neuron
Neuromodulation; Pregnenolone sulfate; Glycine receptor; Patch clamp; Competitive inhibition (Wu, F.-S. (750) 318)

Cuneate nucleus
Glycine-immunoreactive neuron; Corticocuneate terminal; Horseradish peroxidase (HRP); Immunoperoxidase (Lue, J.-H. (771) 167)

Current source density analysis
Acetylcholine; Atropine; Hippocampus; CA1; LTP; Medial septal area; Ventral hippocampal commissure (Markevich, V. (754) 95)

Current–voltage relationship
Brain slice; Calcium; Magnesium; *N*-methyl-D-aspartic acid; Surface charge; Suprachiasmatic nucleus; Whole-cell current (Alberi, S. (745) 55)

Cutaneous
Primary somatosensory cortex; Sensory modulation; Receptive field; Tactile; Movement (Courtemanche, R. (777) 170)

Cutaneous afferent
Group I afferent; β innervation (Kouchtir, N. (774) 159)

Cutaneous blood flow
Arousal; Cerebral blood flow; Internal carotid artery; Ultrasound Doppler flowmeter (Yu, Y.-H. (767) 1)

Cutaneous pain
Ib pathway; Muscle pain; Motor control; Man (Rossi, A. (774) 55)

[^{11}C]WAY-100635
5-HT_{1A} receptor; [^{3}H]WAY-100635; Hippocampus; Human brain; Whole hemisphere autoradiography (Hall, H. (745) 96)

Cx43
Retina; Connexin; Gap junction; Electrical synapse; Immunoblot; Immunohistochemistry; Müller cell (Giblin, L.J. (755) 146)

Cyanide
Excitotoxicity; Glutamate; K_{ATP} channels; Neuroprotection; Tolbutamide (Wind, T. (751) 295)

Cyanide generation
Rat pheochromocytoma cell; Opiate receptor; Rat brain; Cultured rat cerebellar granule cell (Borowitz, J.L. (768) 294)

6-Cyano-7-nitroquinoxaline-2,3-dione
Norepinephrine; Locus coeruleus; Prefrontal cortex; Excitatory amino acid; 2-Amino-5-phosphonopentanoic acid (Jodo, E. (768) 327)

Cyclic adenosine monophosphate
Cell culture; Dopaminergic neuron; Neurotoxicity; 1-Methyl-4-phenylpyridinium; *N*-methyl-D-aspartate (Dickie, B.G.M. (753) 335)

Cyclic guanosine monophosphate; Protein kinase; Phosphodiesterase; Autoradiography; Rat brain (Bonkale, W.L. (763) 1)

Cyclic ADP-ribose
CD38; Central nervous system; Immunohistochemistry; Rat; Ultrastructure (Yamada, M. (756) 52)

Cyclic AMP
Brain endothelium; Cytoskeleton; Cultured monolayer; Permeability (Rist, R.J. (768) 10)

Ethanol; Forskolin; DADLE; Striatum; δ-Opioid receptor (Shen, J. (770) 65)

Cyclic AMP response element
ATF-2; Microglia; Neuron; Alzheimer disease (Yamada, T. (749) 329)

Cyclic GMP
Subarachnoid hemorrhage; Nitric oxide; Cerebral blood flow; Vasospasm; Rat (Yamamoto, S. (757) 1)

Acetylcholine release; Autoinhibition; Choline; Hippocampus; Nitric oxide (NO) (Suzuki, T. (760) 158)

Cyclic guanosine monophosphate
Nitric oxide; Cerebellar astrocyte; Primary culture; Cell morphology (Tomita, A. (744) 344)

Cyclic adenosine monophosphate; Protein kinase; Phosphodiesterase; Autoradiography; Rat brain (Bonkale, W.L. (763) 1)

Cyclic guanosine 3′,5′-monophosphate
Neuroprotection; Nitric oxide synthase; Nitric oxide; Dorsal root ganglia; Dissociated cell culture (Thippeswamy, T. (774) 116)

Cyclic nucleotide
Newborn; Cerebral circulation (Armstead, W.M. (768) 177)

2′:3′-Cyclic nucleotide 3′-phosphodiesterase
Myelin basic protein; Proteolipid protein; Myelin-associated glycoprotein; Platelet-derived growth factor receptor; Thyroid hormone; Hyperthyroidism; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Cycloheximide
GnRH; Phorbol ester; GT1 cell; Actinomycin D; DRB (Yeo, T.T. (752) 294)

Cyclooxygenase
Inferior colliculus; Seizure; Immediate-early gene (McCown, T.J. (767) 370)

Cyclooxygenase-2
Phencyclidine; NMDA receptor antagonist; Neurotoxicity; Heat shock protein; Retrosplenial cortex (Hashimoto, K. (762) 259)

Cyclophilin A
Peptidyl-prolyl *cis-trans* isomerase; Molecular chaperone; Protein folding; Actin; Axon; Slow axonal transport; Data searching (Yuan, A. (771) 203)

Cyclosporin A
Hyperglycemia; Ischemia; Brain damage; Mitochondria; Rat; Histopathology (Li, P.-A. (753) 133)

Adenovirus; β-Galactosidase; Gene transfer; Spinal cord; Immune response; Clarke's nucleus; Red nucleus (Liu, Y. (768) 19)

Cyclosporine
Apoptosis; Development; Excitotoxicity; Neuronal culture; *N*-Methyl-D-aspartate (NMDA) (McDonald, J.W. (759) 228)

Cyclosporine A
Protein phosphatase; Calcineurin; Cortical neuron; Glutamatergic synapse; Calyculin; Microcystin; FK506 (Thomas, G.D. (749) 101)

Cynomolgus monkey
Cholecystokinin; Nucleus of the solitary tract; Area postrema; Ventrolateral medulla; Vagus nerve; Catecholamine; Old-world primate; Rhesus monkey (Schreihofer, D.A. (770) 37)

CYP1A1
Cytochrome *P*-450; Brain; Glioma; Microsome; *CYP2D*; ELISA (Geng, J. (774) 11)

CYP2D
Cytochrome *P*-450; Brain; Glioma; Microsome; *CYP1A1*; ELISA (Geng, J. (774) 11)

Cysteamine
Aging; Alzheimer's disease; Astrocyte; Cognition; Hippocampus; Inclusions; Locomotion; Somatostatin (Justino, L. (761) 127)

Cysteine
Neonatal rat; Hypoxia-ischemia; Neurotoxicity; Excitatory amino acid (Puka-Sundvall, M. (750) 325)

Cystine
Oxidative stress; Glutathione; Cell death; Glutamate; Mouse trisomy 16; Down syndrome; Alzheimer's disease (Stabel-Burow, J. (765) 313)

Cytoarchitecture
Somatosensory cortex; Empirical method; Cat (Myasnikov, A.A. (750) 95)

Cytochrome aa_3
Cortical spreading depression; Coupling; Glucose; Hemoglobin; Hypercapnia; Laser Doppler; Near-infrared spectroscopy; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Cortical metabolism; Cortical blood volume; Oscillation; Spectrophotometry; Interhemispheric (Vern, B.A. (775) 233)

Cytochrome *c* oxidase
Ischemia; Mitochondria; Pyruvate dehydrogenase complex; Neuronal death; Selective vulnerability (Zaidan, E. (772) 23)

Cytochrome oxidase
Quantitative cytochemistry; Inferior colliculus; Morphometry; Alzheimer's disease; Cellular energy metabolism (Gonzalez-Lima, F. (752) 117)

Suprachiasmatic nucleus; Quantitative histochemistry; Rat (López, L. (769) 367)

Cytochrome *P*-450
nNOS; Barbiturate; Cerebellum (Thompson, C.M. (754) 142)

Phencyclidine; Brain metabolism; Drug abuse; Central nervous system; High performance liquid chromatography (Laurenzana, E.M. (756) 256)

Sex steroid; Testosterone; Progesterone; Competitive polymerase chain reaction; Induction; Suppression (Baum, L.O. (765) 67)

Brain; Glioma; Microsome; *CYP1A1*; *CYP2D*; ELISA (Geng, J. (774) 11)

Cytokine
Neurodegeneration; Microglia; Macrophage; Inflammation; Interleukin; Interferon (Klegeris, A. (747) 114)

CA1; Field potential; Short-term potentiation; Post-tetanic potentiation; IL-6 receptor antibody (Li, A.-J. (748) 30)

Behavior; C3H/HeJ; Food motivation; Interleukin-1; Lipopolysaccharide (Johnson, R.W. (752) 219)

Scrapie; Prion; Prostaglandin; Lipocortin; Neurodegeneration; Glia; Mouse (Williams, A. (754) 171)

Trigeminal ganglion; Meninges; Receptor; Tumor necrosis factor (TNF) (Cunningham Jr., E.T. (758) 99)

CNS; Spinal cord injury; Contusion; mRNA; ELISA (Wang, C.X. (759) 190)

Anorexia; Brain; Cachexia; Food intake; Interleukin-1β (Finck, B.N. (761) 333)

Axotomy; Cell death; Ciliary neurotrophic factor; Neuronal cell culture; Spinal cord injury; Trophic factor (Rosenberg, L.J. (775) 209)

Cytokine-induced neutrophil chemoattractant
Focal cerebral ischemia; Ischemic neuronal damage; Neutrophil; Rat (Yamasaki, Y. (759) 103)

Cytoplasmic calcium
Apolipoprotein E; Synthetic peptide; Endocytosis; Receptor associated protein; $[Ca^{2+}]_i$; Neuron (Wang, X.-s. (778) 6)

Cytoplasmic calcium ($[Ca^{2+}]_i$)
Synaptic transmission; Calcium ion channel; Potassium ion channel; Oscillation; Glutamate receptor; GABA receptor; Neuronal network (Wang, X.-s. (767) 239)

Cytoplasmic staining
Immunocytochemistry; Angiotensin receptor; Paraventricular nucleus; Supraoptic nucleus; Confocal microscopy; Rat (Pfister, J. (754) 307)

Cytoskeletal actin
Mechanoreceptor; Baroreceptor neuron; Ion channel gating; Nodose ganglion (Cunningham, J.T. (757) 149)

Cytoskeletal protein
Thyroid hormone; Neuronal differentiation; Actin (Biswas, S.C. (757) 245)

Methylmalonic acid; Organic acidemias; Neurotoxicity; Phosphorylation (De Mattos-Dutra, A. (763) 221)

Cytoskeleton
Calpain; Proteolysis; Middle cerebral artery; Immunocytochemistry; Image-analysis; Rat (Morimoto, T. (746) 43)

Brain endothelium; Cultured monolayer; Permeability; Pyrithiamine (Romero, I.A. (756) 133)

Tau protein; Calcium; Okadaic acid; Phosphatase 1/2A; Cortical neuron; Cerebellar granule cell (Adamec, E. (757) 93)

Tubulin; Tumor suppressor gene; p21-ras; GTPase activating protein; NF1 (Xu, H.-m. (759) 149)

Tubulin; Androstenedione; Differentiation; Mouse; Cell line (Thuerl, C. (762) 47)

Calcium activated neutral proteinase; Alzheimer's disease; Neurofibrillary tangle; Calcium; Calpain antibody (Grynspan, F. (763) 145)

Alzheimer's disease; Paired helical filament; Neurofibrillary tangle; Microtubule-associated proteins; MAP-2; MARK (Jenkins, S.M. (767) 305)

Brain endothelium; Cultured monolayer; Permeability; Cyclic AMP (Rist, R.J. (768) 10)

Cytosolic calcium
Fura-2; Calcium ion channel antagonist; Protonophore; Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone; Calcium ion removal (Sato, M. (768) 37)

Cytotoxicity
β-Amyloid; Alzheimer's disease; Endothelial cell; Superoxide radical; Intracellular calcium (Suo, Z. (762) 144)

Amyloid beta (Aβ); Alzheimer's disease; Phosphorylation (Tan, S. (765) 159)

Hydrogen peroxide; Superoxide dismutase; Catalase (Mann, H. (770) 163)

Astrocyte; Peroxynitrite; Nitric oxide (Amin, N. (773) 227)

D

D609
I_1-imidazoline receptor; Rostral ventrolateral medulla; SHR rat; PC12 cell; Diacylglycerol; Phosphocholine; PC-PLC; Moxonidine (Separovic, D. (749) 335)

δ_1
Antisense mapping; DOR-1; δ Receptor; δ_2; Analgesia (Rossi, G.C. (753) 176)

δ_2
Antisense mapping; DOR-1; δ Receptor; δ_1; Analgesia (Rossi, G.C. (753) 176)

DA
Serotonin; 5-HT; 5-HIAA; Dopamine; Dominant; Subordinate; Lizard; Reptile; *Anolis carolinensis* (Summers, T.R. (767) 272)

DA agonist
Pramipexole; Parkinson's disease; Anterior caudate; Type II neuron (Piercey, M.F. (762) 19)

DADLE
Ethanol; Forskolin; Cyclic AMP; Striatum; δ-Opioid receptor (Shen, J. (770) 65)

Dahl salt-sensitive rat
Ventrolateral medulla; Blood pressure; Sympathetic nervous system; Excitatory amino acid; Glutamate receptor (Tsuchihashi, T. (750) 195)

DAMGO
Naloxone; Quaternary naloxone; Opioid; Mu receptor; Delta receptor; Junco; DPDPE (Deviche, P. (757) 276)

Enkephalin; Dynorphin-A; DPDPE; Opioid receptor; DRG neuron; $GABA_A$ receptor (Xi, Z.-X. (758) 163)

D_1 and D_2 dopamine receptors
Aging; Kainic acid (Zhang, L. (763) 264)

MPTP; Immediate-early gene; *Zif*268; Parkinson's disease; Supersensitivity (Smith, T.S. (765) 189)

DA overflow
Caloric restriction; Aging; Mesostriatal; Mesolimbic; Electrochemistry, in vivo (Diao, L.H. (763) 276)

Data searching
Cyclophilin A; Peptidyl-prolyl *cis-trans* isomerase; Molecular chaperone; Protein folding; Actin; Axon; Slow axonal transport (Yuan, A. (771) 203)

DBA/2 mouse
GABA; Cortical wedge; Glutamate (Hu, R.Q. (753) 260)

Long-term potentiation; C57BL/6 mice; γ-PKC; Hippocampus (Matsuyama, S. (763) 127)

DBA mouse
C57 mouse; Oxiracetam; Aniracetam; AMPA antagonist; NMDA antagonist; Contextual fear conditioning (Lu, Y. (768) 197)

DCG-IV
Metabotropic glutamate receptor; Cortical neuron; NMDA receptor; CCG derivative; Depolarization (Uyama, Y. (752) 327)

L-CCG-II; DHPG; Metabotropic glutamate receptor; Autoradiography (Testa, C.M. (773) 15)

DC potential
Spreading depression; Probenecid; Microdialysis; *N*-Methyl-D-aspartate; Organic anion transport; Kynurenic acid; Lactate (Taylor, D.L. (764) 117)

D_2/D_3 dopamine receptor
Regional cerebral glucose use; Amisulpride; Limbic system (Cudennec, A. (768) 257)

D1/D2 interaction
C-*fos*; Immediate early genes; Quinpirole; A77636; Habenula (Wirtshafter, D. (750) 245)

D2 dopamine receptor
Acetylcholine release; Adenylate cyclase; Vesamicol; Striatum; Dissociated neuron (Login, I.S. (749) 147)

Deafferentation
Estradiol neurotoxicity; β-Endorphin; Sulfated glycoprotein 2 (SGP-2); Medial preoptic area (MPOA); Clusterin (Wener, K.M. (745) 37)

Cell death; Auditory system; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Brain slice (Hyson, R.L. (749) 61)

Plasticity; Transplant; Synaptogenesis; Hippocampus; Dentate gyrus; Sprouting; Reinnervation (Field, P.M. (751) 352)

Degeneration; Apoptosis; p53 (Isono, M. (765) 319)

Dorsal rhizotomy; Brainstem; Gracile nucleus; Sprouting (Sengelaub, D.R. (769) 256)

Deafferentation pain
Dopamine; Striatum; Substantia nigra; Nociception; Central pain; Parkinson's disease; Frontal lobe (Saadé, N.E. (751) 1)

Deafness
Cochlea; AMPA; Dendritic swelling; Neurite regeneration; Plasticity; Protein kinase C (Lerner-Natoli, M. (749) 109)

Decapeptide
Bovine brain microvessel endothelial cells (BBMECs); E-cadherin; Cell adhesion molecules; Ca^{2+}-dependent; Immunofluorescence; Cell-cell adhesion (Pal, D. (747) 103)

Decapitation
Cathepsin B; Global ischemia; Lysosome; Delayed neuronal death; Cell death (Hill, I.E. (751) 206)

Decay kinetics
Anesthetic; γ-Aminobutyric acid (GABA); Halothane; Half-width; Hippocampus; Inhibitory postsynaptic current (IPSC); Prolongation (Lukatch, H.S. (765) 108)

Decerebrate
Rat; Locomotion; Walking; Muscle afferent (Fouad, K. (749) 320)

Decerebrate cat
Central pattern generator; Cervical spinal cord; Stepping (Seki, K. (753) 56)

Decoy peptide
β-Amyloid peptide; β-Amyloid fibril; Calcium ion channel; Calcium homeostasis; Calcium ion concentration; hNT neuron; Non-NMDA channel (Blanchard, B.J. (776) 40)

Deep pineal
Pineal gland; Superior cervical ganglion; Ganglionectomy; Lamina intercalaris; Intergeniculate leaflet (Bartol, I. (744) 77)

Deep prepiriform cortex
Seizure; Excitotoxicity; Kainate; Hippocampus (Kawaguchi, K. (753) 152)

Defecation
Brainstem; Descending system; Lumbosacral reflex; Continence (Holmes, G.M. (759) 197)

Defensive rage behavior
Serotonin; Periaqueductal gray; 5-HT_{1A} receptor; 5-$HT_{2/1C}$ receptor; Hypothalamus; Cat; 8-OHDPAT; DOI hydrochloride; p-MPPI (Shaikh, M.B. (765) 198)

Degenerated neuron and process
Leupeptin; Protease inhibitor; Lipofuscin; Dentate gyrus; Hippocampus; Memory; Step-down passive avoidance task (Arai, T. (754) 157)

Degeneration
Regeneration; Periodontal ligament; Protein gene product 9.5; Neuropeptide Y; Ruffini ending; Inferior alveolar nerve; Nerve injury (Youn, S.H. (752) 161)

Lizard, telencephalon; Reptile; Neurotoxin; Regeneration; Telencephalon; Reactive neurogenesis; [^{3}H]Thymidine (Font, E. (754) 245)

Immunocytochemistry; Glutamate; Optic terminal; Glia (Repérant, J. (761) 321)

Deafferentation; Apoptosis; p53 (Isono, M. (765) 319)

Dehydroepiandrosterone
Acetylcholine; Dehydroepiandrosterone sulfate; Memory; Neurosteroid; Steroid; Sulfatase (Rhodes, M.E. (773) 28)

Dehydroepiandrosterone sulfate
Acetylcholine; Dehydroepiandrosterone; Memory; Neurosteroid; Steroid; Sulfatase (Rhodes, M.E. (773) 28)

Delayed ischemic injury
Diffusion-weighted MRI; Middle cerebral artery occlusion (Mancuso, A. (760) 42)

Delayed neuronal death
Transient global ischemia; Ischemic tolerance; Intraischemic hypothermia; Gerbil (Wada, K. (746) 301)

Cathepsin B; Global ischemia; Lysosome; Decapitation; Cell death (Hill, I.E. (751) 206)

Cerebral ischemia; Hydroxyl radical; MCI-186; Radical scavenger; Rat hippocampus (Yamamoto, T. (762) 240)

Transient ischemia; Gerbil; CA1 (Antonawich, F.J. (764) 249)

Cerebral ischemia; CA1; Hypothermia; Neuroprotection; Astroglia; Microglia; Immunohistochemistry (Nakajima, Y. (765) 113)

Prostaglandin I_2 analog; Brain ischemia; Passive avoidance task; Synapse; Gerbil (Matsuda, S. (769) 321)

Colchicine; Forebrain ischemia; Hippocampus; CA1 neuron; Rat (Kimura, M. (774) 229)

Delayed rectifier potassium current
Toosendanin; Presynaptic blocker; Inhibition; NG108-15 cell; Whole-cell recording (Hu, Q. (751) 47)

Delta activity
Nerve growth factor; Electroencephalography; Beta activity; Choline acetyl transferase; Nucleus basalis of Meynert (Holschneider, D.P. (765) 228)

Delta receptor
Naloxone; Quaternary naloxone; Opioid; Mu receptor; Junco; DAMGO; DPDPE (Deviche, P. (757) 276)

Dementia
cNOS; iNOS; Neuron; Mouse; LP-BM5 virus; AIDS (Li, Y. (752) 107)

Optical method; Hemoglobin oxygenation; Aging; Blood flow; Neurodegeneration (Hock, C. (755) 293)

α_1-Antichymotrypsin polymorphism; ApoE genotype; Parkinson's disease; Alzheimer's disease; Genetic association (Yamamoto, M. (759) 153)

Demyelination
Iron histochemistry; Plaque; Macrophage; Microglia; Oxidative damage (LeVine, S.M. (760) 298)

Dendrite
Low density lipoprotein receptor-related protein; Neuronal differentiation; α_2-Macroglobulin; Axon (Brown, M.D. (747) 313)

Inward rectifying K^+ channel; IRK1; GIRK1; Immunohistochemistry; Development (Miyashita, T. (750) 251)

Cell adhesion molecule; Hippocampus; Neuron; Human (Hino, H. (753) 353)

S-100β; MAP-2; Neuronal cytoskeleton; Alzheimer's disease; Down's syndrome; Hippocampus; Neurofibrillary tangle (Whitaker-Azmitia, P.M. (776) 51)

Dendritic atrophy
Chronic restraint stress; Entorhinal cortex; Hippocampus (Sunanda, (770) 302)

Dendritic growth
Nerve growth factor; Neurotrophin; Pyramidal neuron; Plasticity (Kolb, B. (751) 289)

Dendritic morphometry
Cryopreservation; Culture; Mesencephalon; Dopaminergic neuron; Axonal morphometry (Petite, D. (769) 1)

Dendritic pruning
Ethanol; NMDA antagonist; Recovery of function; Pyramidal neuron; Sensorimotor cortex (Kozlowski, D.A. (763) 159)

Dendritic spine
Caudate putamen; Interneuron; Spiny neuron; Intracellular calcium; Endoplasmic reticulum (Martone, M.E. (756) 9)

Dendritic swelling
Cochlea; Deafness; AMPA; Neurite regeneration; Plasticity; Protein kinase C (Lerner-Natoli, M. (749) 109)

Denervation
Somatosensory plasticity; Nerve injury; Primate cuneate nucleus; Brainstem mapping; Cortex (Xu, J. (774) 211)

Densitometry
Schizophrenia; MAP2; Phosphorylation; Interneuronal distance; Neuronal orientation (Cotter, D. (765) 238)

Dentate gyrus
GABAergic inhibition; Epileptogenesis; Seizure; El mouse; Hippocampus; Disinhibition; Growth (Ono, T. (745) 165)

Plasticity; Transplant; Synaptogenesis; Hippocampus; Deafferentation; Sprouting; Reinnervation (Field, P.M. (751) 352)

Interneuron; Single unit; Population spike; Field potential (Kao, K. (752) 90)

Leupeptin; Protease inhibitor; Lipofuscin; Degenerated neuron and process; Hippocampus; Memory; Step-down passive avoidance task (Arai, T. (754) 157)

Traumatic brain injury; Paired-pulse inhibition; Hippocampus; γ-Aminobutyric acid; Rat (Reeves, T.M. (757) 119)

Applied field; Paired-pulse facilitation; Action potential; Synaptic plasticity (Foster, B. (758) 59)

Hippocampus; Disinhibition; Seizure (Wang, H. (760) 266)

γ-Aminobutyric acid (GABA); *N*-Methyl-D-aspartate (NMDA) receptor; Serotonin; Serotonin 5-HT_{1A} receptor; Release; Guinea pig; High performance liquid chromatography (Matsuyama, S. (761) 105)

Nitric oxide; Nicotinic receptor; Hippocampus; Schizophrenia (Adams, C.E. (776) 111)

Hippocampus; Low-frequency stimulation; Paired-pulse depression; Seizure; Kindling; Perforant path (Emori, K. (776) 250)

2-Deoxy-D-glucose
Lactate; Glucose; Cerebral energy metabolism; Glycolysis; Hypoxia; Hippocampal slice (Schurr, A. (744) 105)

Deoxyglucose
Olfaction; Odor recognition; Odor coding (Slotnick, B.M. (762) 89)

Clozapine; Limbic system; Haloperidol; Extrapyramidal; Nucleus accumbens (Colangelo, V. (768) 273)

2-Deoxyglucose
Neurotoxicity; Autoradiography; Fatty acid; Palmitic acid; Arachidonic acid; Brain metabolism; Gliosis; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

Glutamate; Cerebellar granule cell; Excitotoxicity (Minervini, M. (768) 57)

Dependence
Phenobarbital; Withdrawal; MK-801 binding; c-*fos*; c-*jun*; Activator protein-1 (Tanaka, S. (756) 35)

Depolarization
Metabotropic glutamate receptor; DCG-IV; Cortical neuron; NMDA receptor; CCG derivative (Uyama, Y. (752) 327)

Deprenyl
Monoamine oxidase; Clorgyline; Tyramine; Serotonin; β-Phenylethylamine; Locus coeruleus; Dorsal raphe nucleus (Arai, R. (745) 352)

L-Deprenyl
Monoamine oxidase type B (MAO-B) inhibitor; Hippocampal slice; Dopamine; Intracellular recording; Rat (Huang, C.-C. (753) 27)

Stroke; Cerebral ischemia; Neurodegeneration; Neuronal rescue; hsp70 mRNA (Lahtinen, H. (757) 260)

Depression
Interferon-α; Dopamine; Turnover; Parkinsonism; Suicide (Shuto, H. (747) 348)

Forced swimming test; Brown-Norway rat; Fisher 344 rat; Lewis rat; Spontaneously hypertensive rat; Wistar-Kyoto rat; Corticotropin-releasing factor (Lahmame, A. (750) 285)

Dopamine D_1 receptor binding site; Dopamine D_2 receptor binding site; Suicide; Post-mortem brain tissue; Antidepressant drug; Neuroleptic (Bowden, C. (752) 227)

Serotonin; Dorsal raphe nucleus; Neonatal clomipramine; Electrophysiology; Rat (Kinney, G.G. (756) 68)

α_1-Adrenoceptor; α_2-Adrenoceptor; α_1-Adrenoceptor subtype; α_2-Adrenoceptor subtype; Post-mortem human brain; Suicide; Antidepressant drug (De Paermentier, F. (757) 60)

cAMP-dependent protein kinase; [^{3}H]cAMP binding; Post-mortem brain tissue; Suicide; Antidepressant drugs; Cerebral cortex; Hippocampus; Amygdala (Lowther, S. (758) 223)

Dopamine; Homovanillic acid; DOPAC; Suicide; Post-mortem brain tissue; Antidepressant drug; Basal ganglia (Bowden, C. (769) 135)

β-Endorphin; Mediobasal hypothalamus; Biological rhythm; Pro-opiomelanocortin neuron; Schizophrenia (Jamali, A.K. (771) 45)

Epilepsy; Neuropeptide Y receptor subtype; Peptide YY; Receptor plasticity (Greisen, M.H. (776) 105)

Deprivation
c-Fos; JunB; Dorsal cochlear nucleus; Ventral cochlear nucleus; Inferior colliculus; Repetitive stimulation (Keilmann, A. (753) 291)

Descending inhibition
NSAID; Dipyrone; Analgesia; PAG; Dorsal horn; Sensory neuron (Vanegas, H. (759) 171)

Descending system
Brainstem; Lumbosacral reflex; Continence; Defecation (Holmes, G.M. (759) 197)

Desensitization
Somatostatin receptor; Glial cell; Proliferation; Immunostaining; Octreotide (Feindt, J. (746) 309)

Epiphysis cerebri; Glycogen; Lactic acid; Norepinephrine; Adrenoceptor (Eugenín, E.A. (760) 34)

Δ^9-Tetrahydrocannabinol; Fos protein; Striatum; Nucleus accumbens (Miyamoto, A. (763) 137)

Devazepide
Cholecystokinin; Conditioned activity; Locomotion; L-365,260; PD-140548; Cocaine; Reward-related learning; Nucleus accumbens (Josselyn, S.A. (763) 93)

Developing brain
Ischemia; Glucose deprivation; Neural activity; Calcium ion; Hippocampus (Nabetani, M. (769) 158)

Injury; Reactive astrocyte; Interferon gamma; Proliferation; Rat (Pawliński, R. (773) 231)

Developing neocortex
POU transcription factor; Brn-2; Postmitotic cell; NCAM-H; Gene expression (Hagino-Yamagishi, K. (752) 261)

Development
NT-3; NT-3 antibodies; NGF; Hippocampus; Glial cell; Neuron (Bertollini, L. (746) 19)

Ethanol exposure; Cerebellum; Bergmann glial cell; Wistar rat (Pérez-Torrero, E. (746) 305)

Inward rectifying K^+ channel; IRK1; GIRK1; Immunohistochemistry; Dendrite (Miyashita, T. (750) 251)

Epilepsy; Status epilepticus; MK-801; Neuropathology (Thompson, K. (751) 96)

Myelin basic protein; Proteolipid protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Myelin-associated glycoprotein; Platelet-derived growth factor receptor; Thyroid hormone; Hyperthyroidism; Hypothyroidism (Ibarrola, N. (752) 285)

Limbic system; Vocalization; Primate brain; Neuroethology; Communication (Newman, J.D. (758) 180)

Apoptosis; Cyclosporine; Excitotoxicity; Neuronal culture; *N*-Methyl-D-aspartate (NMDA) (McDonald, J.W. (759) 228)

Critical period; Prenatal stress; Postnatal stress; Corticosterone; Rhythm (Koehl, M. (759) 317)

Hypoxia; Cell death; Apoptosis; Cerebral cortex; Corticogenesis (Stewart, W.B. (760) 17)

Nitric oxide synthase; Retina; Cell death; Optic tract lesion; Rat (Patel, J.I. (761) 156)

Spinal cord; Slice (Hochman, S. (767) 214)

Glutamate transporter; EAAT4; Cerebellum; Purkinje cell (Itoh, M. (767) 265)

Neural tube closure; Pregnancy; Environment (Marret, S. (773) 213)

Tryptophan; Serotonin; Prolactin; Luteinizing hormone (Martin, L. (774) 265)

Developmental brain
Ganglioside; Phenoxyherbicide; 2,4-Dichlorophenoxyacetic acid (2,4-D); Neurotoxicity (Rosso, S.B. (769) 163)

Dexamethasone
G-protein; Signal transduction; Glucocorticoid; Nerve growth factor (Li, X. (759) 213)

Fos; Glucocorticoid; Hypothalamus; Immunocytochemistry; Jun; Preoptic area (Briski, K.P. (768) 185)

Mn-SOD; Mercury; Mouse brain; Post-transcriptional modification; Oxidative stress (Kumagai, Y. (769) 178)

Muscle inactivity; Neurotrophic control; Muscle extrajunctional membrane property; Tetrodotoxin-insensitive Na^+ channel; Tetrodotoxin; Chronic block of nerve impulse conduction (Pasino, E. (770) 242)

Dexmedetomidine
α_2-adrenergic agonist; Anesthetic; Halothane; Electroencephalography; Electromyography (Farber, N.E. (774) 131)

Dextran-tetramethylrhodamine
Preglomerular nucleus; Telencephalon; Neuronal tract tracing; Biocytin; Gymnotiform; *Apteronotus leptorhynchus* (Zupanc, G.K.H. (761) 179)

Diencephalon; Retrograde tracing; Anterograde tracing; Biocytin; Neuroendocrine control; Teleostei; Gymnotiformes (Zupanc, G.K.H. (774) 106)

Dextromethorphan
Cocaine; Lidocaine; Local anesthetic; Seizure; 6,7-Dinitroquinoxaline-2,3-dione; NMDA (Barat, S.A. (756) 179)

DHPG
L-CCG-II; DCG-IV; Metabotropic glutamate receptor; Autoradiography (Testa, C.M. (773) 15)

Diabetes
Poly (A) tail; Glucose transport; Blood–brain barrier (Shah, G.N. (754) 213)

Neuropeptide Y; PreproNPY mRNA; Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Streptozotocin; Hyperphagia (Sahu, A. (755) 339)

Ethanol; Protein kinase C; Righting reflex; Calphostin C; Phorbol 12,13-dibutyrate (Ohsawa, M. (764) 244)

Obesity; Glucose; Sulfonylurea; ATP sensitive K^+ channel; Diet induced obesity (Levin, B.E. (776) 146)

Diabetes mellitus
Drinking; Acetylcholine; Atropine; Streptozotocin; Lateral hypothalamus (Murzi, E. (752) 184)

Diabetic neuropathy
Protein kinase C; Isozyme; Streptozotocin (Roberts, R.E. (754) 147)

Peripheral nerve regeneration; Silicone chamber; Schwann cell migration; Axon; Streptozocin (Tantuwaya, V.S. (759) 58)

Polyneuropathy; Myelinated axon; Trophin (Singhal, A. (763) 209)

Diacylglycerol
I_1-imidazoline receptor; Rostral ventrolateral medulla; SHR rat; PC12 cell; Phosphocholine; PC-PLC; D609; Moxonidine (Separovic, D. (749) 335)

G-protein; Phospholipase A; Phospholipase C; Arachidonic acid; Protein kinase C; Associative learning; Memory (Talk, A.C. (751) 196)

Diacylgylcerol (DAG)
Fear; Conditioning; Calcium; Hippocampus; Thalamus; Glutamate (Shors, T.J. (750) 293)

Diagonal band
Basal forebrain; Broca; In vitro; Microwire; Rat; Sleep; Synaptic blockade; Thermoregulation; Thermosensitivity (Hays, T. (746) 52)

Diagonal band of Broca
Warm-sensitive neuron; Cold-sensitive neuron; Thermosensitivity; Wakefulness; Non rapid eye movement sleep (Alam, Md.N. (752) 81)

Choline acetyltransferase; Parvalbumin; GABA; Septum; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (753) 141)

Prostaglandin E_2; Hyperthermia; EP_1 receptor; 17-Phenyl-ω-trinor prostaglandin E_2; Anterior wall of the third ventricle; Fever (Oka, K. (767) 92)

$GABA_A$ receptor; Non-NMDA receptor; NMDA receptor; Intracellular recording; Lateral preoptic area; Lateral hypothalamus (Yang, Q.Z. (773) 162)

Diamidino Yellow · 2HCl (DY · 2HCl)
Callosal neuron; Callosotomy; Retrograde double labeling; Fast Blue (FB); Rat (Orihara, Y.I. (778) 393)

Diaphragm
Abdominal muscle; Upper airway; Swallowing; Vomiting; Ventral respiratory group (Umezaki, T. (769) 347)

Diaphragm electromyogram
Spontaneous augmented breath; Post-inspiratory neuron; Post-inspiratory inspiratory activity; Medulla; Single unit recording; Control of breathing (Takeda, M. (758) 218)

Diazepam
Bicuculline-induced convulsion; Sex difference; Handling stress; Swim stress; Flumazenil; Rat (Peričić, D. (752) 279)

$GABA_A$ receptor; $\gamma 2$ subunit; Antisense oligodeoxynucleotide; Rat hippocampus; Radioligand binding (Karle, J. (765) 21)

Benzodiazepine; Chronic treatment; Postnatal exposure; Learning; Memory; Anxiety; Cerebral glucose utilization (Schroeder, H. (766) 142)

Penicillin; Absence seizure; Hypothermia; GABA; Thalamus (Ostojić, Z.S. (777) 86)

Diazepam-binding inhibitor
$GABA_A$ receptor; Proopiomelanocortin; Pregnenolonesulfate; Octadecaneuropeptide; Trilostane; Pars intermedia (Garcia de Yebenes, E. (750) 277)

Diazoxide
Substantia nigra pars reticulata; ATP-sensitive potassium channel; Glibenclamide; Rat (Ye, G.L. (753) 1)

Dibutyryl cAMP
Sialoglycopeptide; Apoptosis; PC12 cell; Nerve growth factor; Serum (Kobayashi, Y. (778) 309)

Dibutyryl cyclic AMP
Axonal transport; Hippocampus; Cell culture; Organelle motion; Neurotransmitter (Hashimoto, Y. (755) 343)

2,4-Dichlorophenoxyacetic acid (2,4-D)
Developmental brain; Ganglioside; Phenoxyherbicide; Neurotoxicity (Rosso, S.B. (769) 163)

Diencephalon
Retrograde tracing; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Neuroendocrine control; Teleostei; Gymnotiformes (Zupanc, G.K.H. (774) 106)

Diethyldithiocarbamate
Alzheimer's disease; Apoptosis; Dihydrorhodamine; Hippocampal neuron; 4-Hydroxynonenal; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Ouabain; Superoxide anion radical (Mark, R.J. (756) 205)

Nitric oxide; Inducible nitric oxide synthase; Interferon regulatory factor-1; Nuclear transcription factor kappa B; Glial cell (Fujimura, M. (759) 247)

Neuropsin; Serine protease; Learning impairment; Avoidance; Hippocampus; Oxidative stress (Akita, H. (769) 86)

Diet-induced obesity
c-Fos; Sympathetic nervous system; Cholera toxin (Dunn-Meynell, A.A. (748) 100)

Obesity; Glucose; Sulfonylurea; ATP sensitive K^+ channel; Diabetes (Levin, B.E. (776) 146)

Diet selection
Area postrema; Nucleus of the solitary tract; Arcuate nucleus; Paraventricular nucleus; Ingestive behavior; Food intake (Edwards, G.L. (755) 84)

Hypothalamus; Infusion; Fat; Carbohydrate; Protein; Enriched; Macronutrient (Van Dijk, G. (777) 147)

Difference spectroscopy
Blood–brain barrier; Hyperphenylalaninemia; Michaelis–Menten kinetics; Proton magnetic resonance spectroscopy; Phenylalanine transport; Phenylketonuria; Saturation kinetics (Möller, H.E. (778) 329)

Differential gene expression
Mitochondria; Fovea; Retina (Bernstein, S.L. (744) 143)

Differentiated NT2 cell
β-Amyloid peptide; hNT cell; Ionophore; Calcium current; Patch clamp; Alzheimer's disease (Sanderson, K.L. (744) 7)

Differentiation
Reptile; Prenatal; Embryo; Brain; Age; Sexual experience (Crews, D. (758) 169)

Tubulin; Androstenedione; Mouse; Cell line; Cytoskeleton (Thuerl, C. (762) 47)

LRP; α_2MR; Neuroblastoma; α_2Macroglobulin; Phorbol ester; Retinoic acid; Interferon-γ (Fabrizi, C. (776) 154)

Diffuse axonal injury
Cortical contusion; Learning acquisition; Memory retention; Water maze; Hippocampus; Entorhinal cortex (Yamaki, T. (752) 151)

Diffuse Lewy body disease
Apoptosis; In situ end labeling; Lewy body; Parkinson's disease; Neurodegeneration; Substantia nigra (Tompkins, M.M. (775) 24)

Diffuse plaque
Plaque type; Isoaspartate β-amyloid; Aging; Alzheimer's; Animal model; Beagle dog lifespan (Satou, T. (774) 35)

Diffusion
Focal cerebral ischemia; Magnetic resonance imaging; Perfusion; Oxygenation; Rat brain (Dijkhuizen, R.M. (750) 161)

Epilepsy; Apparent diffusion coefficient; Interictal discharge; Ion-selective microelectrode; Cerebral cortex (Schwindt, W. (753) 86)

Acetylcholine; Choline; Uptake; Caudate; Anterior thalamus; Agarose gel (Xin, Q. (776) 126)

Diffusion imaging
Global ischemia; Apparent diffusion coefficient of brain water (ADCw); Hyperglycemia; MRI; Stroke (Huang, N.C. (757) 139)

Diffusion-weighted imaging
Magnetic resonance spectroscopic imaging; *N*-Acetylaspartate; Creatine; Choline; Rat brain; Kainate; Epilepsy (Tokumitsu, T. (744) 57)

Diffusion-weighted magnetic resonance imaging
Hydrocephalus; Cerebral ischemia; Cerebral edema; Magnetic resonance spectroscopy (Braun, K.P.J. (757) 295)

Delayed ischemic injury; Middle cerebral artery occlusion (Mancuso, A. (760) 42)

Digoxigenin
GnRH; LHRH mRNA; GnRH mRNA; Estrous cyclicity; Age-related; Hypothalamus; In situ hybridization (Rubin, B.S. (770) 267)

Dihydrorhodamine
Alzheimer's disease; Apoptosis; Diethyldithiocarbamate; Hippocampal neuron; 4-Hydroxynonenal; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Ouabain; Superoxide anion radical (Mark, R.J. (756) 205)

Dihydrotestosterone
5α-Reductase; Birdsong; *Robustus archistriatalis*; Aza-steroid; Aromatase (Grisham, W. (750) 122)

Dopamine; 3,4-Dihydroxyphenylalanine; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Estrogen; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

3,4-Dihydroxyphenylacetic acid
Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxy-phenylglycol; 5-Hydroxytryptamine; 5-Hydroxyindoleacetic acid; Striatum; Nucleus accumbens (Irifune, M. (763) 281)

Dihydroxyphenylacetic acid
Nigrostriatal; Dopamine; Neuroprotection; Parkinson's disease (Dluzen, D. (767) 340)

3,4-Dihydroxyphenylalanine
Dopamine; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Dihydrotestosterone; Estrogen; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

(*S*,*R*)-Dihydroxyphenylglycine
Subthalamic nucleus; Metabotropic glutamate receptor; Brain slice; (+)-α-Methyl-4-carboxyphenylglycine; Excitation (Abbott, A. (766) 162)

3,4-dihydroxyphenylglycolaldehyde
Apoptosis; Neurotoxin; Catecholamine; Neuronal death; Alzheimer's disease (Burke, W.J. (760) 290)

5,7-Dihydroxytryptamine
DOPA; Metabolism; Dopamine; Serotonin; Medial forebrain bundle; Fasciculus retroflexus; Neurotoxin; Radiotracer (Cumming, P. (747) 60)

Non-photic; Entrainment; Serotonin; Suprachiasmatic nucleus; Circadian rhythm; Mouse; Activity feedback; c-*fos* (Bradbury, M.J. (768) 125)

Proopiomelanocortin; mRNA; Pituitary; 5-Hydroxytryptamine (García-García, L. (772) 115)

Amphetamine; Locomotion; Serotonin; Serotonin syndrome (Vanderwolf, C.H. (772) 121)

DiI in vivo tracing
Visceral afferent; Esophagus; Stomach; Nodose ganglion; Gastric distension; c-Fos expression; Solitary nucleus (Berthoud, H.-R. (746) 195)

***l-cis*-Diltiazem**
Invertebrate photoreceptor; cGMP-activated K channel blocker; 4-Aminopyridine (Gotow, T. (745) 303)

3,4-Dimethoxyphenylethylamine
Parkinson's disease; Tetrahydropapaverine; MPP^+; Dopamine; Osmotic pump; Tetrahydroisoquinoline (Koshimura, I. (773) 108)

Dimethoxyphenylethylamine (DMPEA)
Parkinson's disease; Papaverine; Tetrahydropapaverine; 1-Methyl-4-phenylpyridinium ion (MPP^+); Ventral mesencephalic-striatal co-culture (Goto, K. (754) 260)

Dimyristoyl phosphatidylcholine liposome
Clathrin coated vesicle; Apolipoprotein E isoform; β-Amyloid; βA4 conjugate; βA4 oligomers/aggregates; *Tau* (Berg, M.J. (752) 72)

6,7-Dinitroquinoxaline-2,3-dione
Cocaine; Lidocaine; Local anesthetic; Seizure; Dextromethorphan; NMDA (Barat, S.A. (756) 179)

Dipeptide
Opioid; Pro-opiomelanocortin; Cardiovascular regulation; Post-translational processing; Glycyl-L-glutamine (Unal, C.B. (747) 52)

Dipole tracing
Monkey; Posterior tibial nerve; Somatosensory evoked potential (Hayashi, N. (774) 44)

Dipsogenesis
Aminopeptidase A; Angiotensin II; Angiotensin III; Blood pressure; Aminopeptidase N; Anticatalytic (Song, L. (744) 1)

Dipyridamole
Cerebral cortex; Ischemia/reperfusion; Volume regulation; Anion transport; Chloride channel; SITS; NPPB (Phillis, J.W. (758) 9)

Dipyrone
NSAID; Analgesia; PAG; Dorsal horn; Sensory neuron; Descending inhibition (Vanegas, H. (759) 171)

Direct gene transfer
6-Hydroxydopamine; Recovery; Regeneration; Neurotrophic factor; Dopaminergic neuron; Neurodegeneration; Substantia nigra; Dopamine turnover (Lapchak, P.A. (777) 153)

Discharge pattern analysis
Bursting activity; Interspike interval; Autocorrelogram; Extracellular recording (Martinson, J. (750) 129)

Discrimination memory
Learning; Adrenal steroid; Aldosterone; Type I receptor; Type II receptor; Spatial recognition memory (Conrad, C.D. (759) 76)

Discriminative stimulus effect
Serotonin; Neurotoxicity; Anorexia; Fenfluramine; Amphetamine (Fasciano, J. (763) 182)

Disinhibition
GABAergic inhibition; Epileptogenesis; Seizure; El mouse; Dentate gyrus; Hippocampus; Growth (Ono, T. (745) 165)

Muscarinic; Acetylcholine; Glutamate; γ-Aminobutyric acid (GABA); Inhibitory postsynaptic potentials (IPSPs); Neocortex (Aramakis, V.B. (758) 107)

Meriones unguiculatus; Genetic epilepsy; Limbic seizure; Calcium-binding proteins; Ammonshorn (Scotti, A.L. (760) 109)

Dentate gyrus; Hippocampus; Seizure (Wang, H. (760) 266)

Inflammation; Inhibition; Pain; Hyperalgesia; Dorsal horn (Traub, R.J. (778) 34)

Disseminated selective neuronal necrosis
Cerebral infarction; Repeated ischemia; Threshold; Maturation phenomenon; Gerbil (Hanyu, S. (767) 154)

Dissociated cell culture
Neuroprotection; Nitric oxide synthase; Nitric oxide; Cyclic guanosine 3′,5′-monophosphate; Dorsal root ganglia (Thippeswamy, T. (774) 116)

BCECF; Central chemoreceptor; Control of breathing; γ-Aminobutyric acid (GABA); Glutamate; Respiration (Sugama, S. (777) 95)

Dissociated neuron
D2 dopamine receptor; Acetylcholine release; Adenylate cyclase; Vesamicol; Striatum (Login, I.S. (749) 147)

Tetrahydroberberine; K^+ current; K^+ channel; Hippocampus; Patch clamp (Wu, J. (775) 214)

Distribution
Trk protein distribution; Auditory system central anatomy; Cochlear nucleus (Burette, A. (776) 10)

1,3-Di(2-tolyl)guanidine
Phencyclidine; Immediate-early gene; c-*fos*; Rimcazole; σ Receptor; Pentazocine; Rat (Sharp, J.W. (758) 51)

Diuretics
Furosemide; Mannitol; Kainic acid; Osmolality; Seizure (Stringer, J.L. (745) 328)

Diurnal rhythm
Methylphenidate; Dose response; Psychomotor stimulant; Motor activity; Chronobiology; Behavior (Gaytan, O. (777) 1)

Diurnal variation
Hydroxyindole-*O*-methyltransferase; Melatonin; Silkworm; *Bombyx mori*; Insect (Itoh, M.T. (765) 61)

Diving
Fasting; Food deprivation; Water deprivation; Hyperoxia; High oxygen pressure; Epilepsy (Bitterman, N. (761) 146)

Dizocilpine
Harmaline; Inferior olive; Nictitating membrane response; Rabbit; Tremor (Du, W. (745) 183)

Brain stimulation reward; Cocaine; Dopamine; Drug of abuse; MK-801; NMDA receptor; Reinforcement; Reward; Self-stimulation (Ranaldi, R. (760) 231)

DL-Homocysteic acid
Bötzinger complex; Nucleus retrofacialis; Respiratory control; Expiration-related medullary neurons; Ventral respiratory group; Rabbit; Expiratory activity (Bongianni, F. (749) 1)

DNA damage
Cerebral ischemia; Rat; Cell cycle protein; p53 response protein; DNA repair; Apoptosis (Li, Y. (765) 301)

DNA fragmentation
3-Nitropropionic acid; Apoptosis; Mitochondria; Huntington's disease (Sato, S. (745) 343)

Focal cerebral ischemia; Reperfusion injury; TUNEL staining (Murakami, K. (751) 160)

Programmed cell death; Apoptosis; Necrosis; Rat; Neuron; Astrocyte; Heat shock; TUNEL; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

Tumor necrosis factor; TNF binding protein; Brain infarction; Mouse (Nawashiro, H. (778) 265)

DNA repair
RecA protein; Recombination; Neuron; Glia (Araneda, S. (762) 103)

Cerebral ischemia; Rat; Cell cycle protein; p53 response protein; DNA damage; Apoptosis (Li, Y. (765) 301)

DNA synthesis
Catecholamine; Ventricular zone; α_1-Adrenoreceptor; Cell culture; Apoptosis (Pabbathi, V.K. (760) 22)

Docosahexaenoate
Arachidonate; Serotonin-2 receptor; Phospholipase A_2; Phospholipase C; C6 glioma cell (Garcia, M.C. (768) 43)

DOI
Epilepsy; Serotonin; Receptor subtype; Kindling; Seizure; 8-OH-DPAT; Ketanserin (Wada, Y. (747) 338)

DOI hydrochloride
Defensive rage behavior; Serotonin; Periaqueductal gray; 5-HT_{1A} receptor; 5-$HT_{2/1C}$ receptor; Hypothalamus; Cat; 8-OHDPAT; p-MPPI (Shaikh, M.B. (765) 198)

Dominance-subordination
Worker-parasite; Monoamine oxidase; Frontal cortex (Dhingra, N.K. (758) 237)

Dominant
Serotonin; 5-HT; 5-HIAA; Dopamine; DA; Subordinate; Lizard; Reptile; *Anolis carolinensis* (Summers, T.R. (767) 272)

Dominant focus
Kindling; Chronic epilepsy; Spontaneous seizure; Prolonged postictal convulsive state; Mossy fiber sprouting (Timofeeva, O.A. (754) 227)

Domoic acid
Peripheral benzodiazepine receptor; PK-11195; Biomarker; Water maze; Hippocampus; Excitotoxicity (Kuhlmann, A.C. (751) 281)

DOPA
Metabolism; Dopamine; Serotonin; Medial forebrain bundle; Fasciculus retroflexus; Neurotoxin; 5,7-Dihydroxytryptamine; Radiotracer (Cumming, P. (747) 60)

L-DOPA
Culture; Glutamate; Neuroprotection; Neurotoxicity; Release; Striatum (Maeda, T. (771) 159)

DOPAC
Dopamine; Homovanillic acid; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug; Basal ganglia (Bowden, C. (769) 135)

Dopamine
Imidazoline receptor; α_2-Adrenoceptor; Microdialysis; Norepinephrine; Clonidine; Rat (Meana, J.J. (744) 216)

Single-unit recording; Cocaine; SCH 23390; Apomorphine; Substantia nigra; Ventral tegmental area (Lee, T.H. (744) 293)

Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Norepinephrine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Cellular expression; Anti-peptide antisera; Forebrain; Hindbrain (Ariano, M.A. (746) 141)

Norepinephrine; Serotonin; Vestibule; HPLC; Rat (Gil-Loyzaga, P. (746) 265)

DOPA; Metabolism; Serotonin; Medial forebrain bundle; Fasciculus retroflexus; Neurotoxin; 5,7-Dihydroxytryptamine; Radiotracer (Cumming, P. (747) 60)

Glial cell line-derived neurotrophic factor; Parkinson's disease; Neurotrophic factor; Basal ganglia; Alzheimer's disease; Cholinergic function (Lapchak, P.A. (747) 92)

Ventral pallidum; Substantia innominata; GABA; Anterograde tracing; *Phaseolus vulgaris*-leucoagglutinin (Gaykema, R.P.A. (747) 173)

Nitric oxide; Glutamate; LTP; Locomotion (Gracy, K.N. (747) 259)

Cholecystokinin; Coexistence; Microdialysis; Nucleus accumbens; Caudate; Putamen (Maidment, N.T. (747) 290)

Interferon-α; Turnover; Parkinsonism; Depression; Suicide (Shuto, H. (747) 348)

Ischemia; Voltage-gated calcium channel; Striatum; ω-Conotoxin GVIA; Neomycin; ω-Agatoxin IVA (Toner, C.C. (748) 85)

Angiotensin II; Haloperidol; Mouse; Receptor; Nucleus accumbens; Striatum (Jenkins, T.A. (748) 137)

Neurotensin; Microdialysis; NMDA; Striatum; Nucleus accumbens (Wagstaff, J.D. (748) 241)

Acetylcholine release; Morphine; Kainic acid; Olfactory tubercle; Caudate-putamen; Ventral striatum; Dorsal striatum; Serotonin (Guevara, B.H. (749) 139)

Bicuculline; Immediate early genes; Mediodorsal thalamic nucleus; Motor activity; Noradrenaline; Paraventricular thalamic nucleus; Ventral tegmental area (Bubser, M. (749) 214)

Positron emission tomography; 6-[^{18}F]Fluoro-L-*m*-tyrosine; Kinetics; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey; 6-[^{18}F]Fluoro-L-DOPA (Jordan, S. (750) 264)

Striatum; Substantia nigra; Nociception; Central pain; Deafferentation pain; Parkinson's disease; Frontal lobe (Saadé, N.E. (751) 1)

3,4-Dihydroxyphenylalanine; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Dihydrotestosterone; Estrogen; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

Immunocytochemistry; Substance P; FMRFamide; Brain; Crustacean; Olfaction (Schmidt, M. (752) 15)

Cellular expression; Anti-peptide antisera; Forebrain; mRNA (Ariano, M.A. (752) 26)

L-Deprenyl; Monoamine oxidase type B (MAO-B) inhibitor; Hippocampal slice; Intracellular recording; Rat (Huang, C.-C. (753) 27)

Ventral pallidum; Microdialysis; Cocaine; 6-Hydroxydopamine; Conditioned place preference; Locomotion; Nucleus accumbens (Gong, W. (754) 103)

Immuno-electronmicroscopy; Mesencephalic trigeminal nucleus; Rat (Liem, R.S.B. (755) 319)

Nicotine; Atropine; Mecamylamine; Naloxone; Prolactin; TIDA neuron; Median eminence (Shieh, K.-R. (756) 266)

Amphetamine; Glutamate; γ-Aminobutyric acid; Calcium-channel blockers; Protein-synthesis inhibitor; Cortex; Behavioral sensitization (Karler, R. (757) 228)

Ventral tegmental area; Neuropeptide FF; Formalin test; Footshock stress; Opioids; Analgesia (Altier, N. (758) 250)

Glutamate; Striatum; Substantia nigra; MPTP; Neurodegeneration; Excitotoxicity; Drug screening (Kanthasamy, A.G. (759) 1)

Early-gene; Nucleus accumbens; Striatum; A_{2A} receptors; Antipsychotic (Pinna, A. (759) 41)

γ-Aminobutyric acid (GABA); 5-Hydroxyindoleacetic acid (5-HIAA); Ketamine; Microdialysis; Prefrontal cortex (Lindefors, N. (759) 205)

Attention; Sensory; Single-unit; Ventral tegmental area (VTA); Mesolimbic (Horvitz, J.C. (759) 251)

Neurotensin; Sensorimotor gating; Prepulse inhibition; Nucleus accumbens (Feifel, D. (760) 80)

Brain stimulation reward; Cocaine; Dizocilpine; Drug of abuse; MK-801; NMDA receptor; Reinforcement; Reward; Self-stimulation (Ranaldi, R. (760) 231)

Carotid body; D2 receptor isoforms (Bairam, A. (760) 287)

Adenosine receptor; Adenylyl cyclase; Brain; Tyrosine hydroxylase (Choksi, N.Y. (761) 151)

Interleukin-1; Microdialysis; Serotonin; Norepinephrine; Rat (Merali, Z. (761) 225)

Dopamine β-hydroxylase; Sympathetic neurotransmitter; Spleen; Neuroimmunomodulation; Stress (Bencsics, A. (761) 236)

Parkinson's disease; γ-Aminobutyric acid (GABA); Basal ganglia (Rohlfs, A. (761) 352)

Anxiety; Elevated plus maze; Prefrontal cortex; 6-Hydroxydopamine; Locomotion; Rat (Espejo, E.F. (762) 281)

Morphine; Invertebrate ganglia; Anandamide; Serotonin; Presynaptic release (Stefano, G.B. (763) 63)

Terminal field distribution pattern; Grid mapping; Norepinephrine; Serotonin; Thalamus (Oke, A.F. (763) 69)

Fixed interval schedule; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Nucleus accumbens; Dorsal striatum; Operant; Behavior (Cory-Slechta, D.A. (764) 253)

Opioid receptor; Transmitter release; Calcium channel; Neuroblastoma; Pertussis toxin (Keren, O. (764) 277)

Hydrogen peroxide; Substantia nigra; Microdialysis; Cerebral ischemia; Striatum; Rat (Lei, B. (764) 299)

MK-801 (dizocilpine); Nucleus accumbens; Serotonin; Norepinephrine; Microdialysis (Yan, Q.-S. (765) 149)

Methamphetamine; Behavioral sensitization; Calmodulin; Hybridization, in situ; Radioimmunoassay (Shimizu, Y. (765) 247)

Amphetamine; Methamphetamine; Neurotoxicity; PET; Primate (Melega, W.P. (766) 113)

Methamphetamine; Sensitization; Neurotoxicity; Serotonin (Abekawa, T. (767) 34)

Neurotoxicity; Amphetamine; ADHD; Narcolepsy (Yuan, J. (767) 172)

Serotonin; 5-HT; 5-HIAA; DA; Dominant; Subordinate; Lizard; Reptile; *Anolis carolinensis* (Summers, T.R. (767) 272)

Nigrostriatal; Dihydroxyphenylacetic acid; Neuroprotection; Parkinson's disease (Dluzen, D. (767) 340)

Nucleus accumbens; Muscimol; Microdialysis; Fos expression (Yoshida, M. (767) 356)

Homovanillic acid; DOPAC; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug; Basal ganglia (Bowden, C. (769) 135)

P-glycoprotein; Neurotoxicity; Methamphetamine; Methylenedioxymethamphetamine; Blood–brain barrier; Striatum; Nucleus accumbens; Cancer (Mann, H. (769) 340)

Mechanical distortion; Kaolin-induced hydrocephalus; Basal ganglia; Acetylcholine; GABA; Immunohistochemistry (Tashiro, Y. (770) 45)

Self-mutilating behavior; *d*-Amphetamine; *R*(+)-SCH-23390; (±)-Sulpiride; Haloperidol; Rat (Lara-Lemus, A. (770) 60)

Neuron; Astrocyte; Coculture; Neuroprotection; Glutathione; Hydrogen peroxide; Neurodegeneration (Drukarch, B. (770) 123)

Amphetamine; Glutamate; Iontophoresis; Neostriatum; Nucleus accumbens (Kiyatkin, E.A. (771) 14)

Arousal; Accumbens; Microinjection; Nucleus accumbens septi (Campbell, A. (771) 55)

Serotonin; Neurotoxicity; Amphetamine (Fasciano, J. (771) 115)

MAOB; Enzyme histochemistry; Transgenic mouse; Ultrastructure; Nucleus accumbens shell (Ikemoto, K. (771) 163)

Methamphetamine; Heat shock protein; Body temperature; Hippocampus; Striatum (Kuperman, D.I. (771) 221)

Parkinson's disease; 3,4-Dimethoxyphenylethylamine; Tetrahydropapaverine; MPP^+; Osmotic pump; Tetrahydroisoquinoline (Koshimura, I. (773) 108)

Protein kinase C; Bipolar cell; Retina; Goldfish; Image analysis (Vaquero, C.F. (773) 208)

Tyrosine hydroxylase; Malonate; Cell loss; Substantia nigra; Striatum; Parkinson's disease (Sonsalla, P.K. (773) 223)

Alcohol drinking; Alcohol-preferring rat; 3-Methoxytyramine; Water drinking; Caudate-putamen; Nucleus accumbens; Olfactory tubercle (Honkanen, A. (774) 207)

Electroconvulsive shock; Fractional release; Striatum; Presynaptic mechanism (Passarelli, F. (774) 239)

Catalepsy; *N*-Methyl-D-aspartate receptor; Corpus striatum; Substantia nigra (Özer, H. (777) 51)

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Dopamine agonists
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Dopamine β-hydroxylase
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Dopamine D_2 agonist
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Dopamine D_1 receptor
Dopamine D_2 receptor; SKF 38393; Quinelorane; Raclopride; Immunohistochemistry (Cheung, S. (770) 176)

Dopamine D_2 receptor; c-*fos*; Calbindin; A-77636; Quinpirole; Matrix; Striosome; Immediate early gene (Wirtshafter, D. (771) 271)

Dopamine D_2 receptor
Electron microscopy; Caudate nucleus/putamen; Nucleus accumbens shell; Immunocytochemistry; Ultrastructure; Gamma-aminobutyric acid (GABA) (Delle Donne, K.T. (746) 239)

Dopamine D_1 receptor; SKF 38393; Quinelorane; Raclopride; Immunohistochemistry (Cheung, S. (770) 176)

Dopamine D_1 receptor; c-*fos*; Calbindin; A-77636; Quinpirole; Matrix; Striosome; Immediate early gene (Wirtshafter, D. (771) 271)

Dopamine D_4 receptor
[^{3}H]Nemonapride; [^{3}H]Raclopride; σ Opioid receptor; PPAP (Tang, S.W. (765) 7)

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Dopamine D_2 receptor binding site; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug; Neuroleptic (Bowden, C. (752) 227)

Dopamine D_2 receptor binding site
Dopamine D_1 receptor binding site; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug; Neuroleptic (Bowden, C. (752) 227)

Dopamine efflux
Fast-scan cyclic voltammetry; Free-choice novelty; Nucleus accumbens: core; Shell; Shore (Rebec, G.V. (776) 61)

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Dopamine receptor
Rapid eye movement sleep; SCH 23390; Sulpiride; Nigro-striatal lesion (Durán-Vázquez, A. (744) 171)

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μ-Opioid receptor; AF64-A; Methoctramine; Rat striatum; Microdialysis; γ-Aminobutyric acid (GABA) (Dourmap, N. (749) 295)

σ Receptor; Neuropeptide Y; Rat striatum; PYX-1 (Ault, D.T. (760) 210)

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Dopamine release and uptake
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Dopaminergic
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1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); c-Jun; c-Fos; Apoptosis; Parkinson's disease (Nishi, K. (771) 133)

6-Hydroxydopamine; Recovery; Regeneration; Neurotrophic factor; Neurodegeneration; Direct gene transfer; Substantia nigra; Dopamine turnover (Lapchak, P.A. (777) 153)

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δ Opioid receptor; Conditioned place preference; Reward; Mesolimbic dopamine system (Suzuki, T. (744) 327)

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6-Hydroxydopamine; Recovery; Regeneration; Neurotrophic factor; Dopaminergic neuron; Neurodegeneration; Direct gene transfer; Substantia nigra (Lapchak, P.A. (777) 153)

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c-Fos; JunB; Ventral cochlear nucleus; Inferior colliculus; Deprivation; Repetitive stimulation (Keilmann, A. (753) 291)

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Endotoxin; Hyperalgesia; Inflammatory pain; c-fos protein; Opioid; Pain test (Saadé, N.E. (769) 57)

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Substance P; NMDA receptor; Primary afferent; Nociception; Pain (Aicher, S.A. (772) 71)

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Ultrastructure; Anatomy; Analgesia; Neurotransmitter (Cheng, P.Y. (778) 367)

Dorsal medulla
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Dorsal motor nucleus of the vagas nerve
$GABA_A$ receptor; NMDA receptor; Pseudorabies virus; Immunofluorescence; Confocal laser microscopy; Rat (Broussard, D.L. (763) 123)

Dorsal octavolateralis nucleus
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Dorsal raphe
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$5\text{-}Hydroxytryptamine_{1A}$ receptor; Inwardly rectifying K^+ current; G protein; Nystatin perforated patch recording; Rat (Katayama, J. (745) 283)

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Depression; Serotonin; Neonatal clomipramine; Electrophysiology; Rat (Kinney, G.G. (756) 68)

Paraventricular nucleus; Stress ulcer; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

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Axotomy; c-Jun; Immunoblotting (Kenney, A.M. (751) 90)

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Brain-derived neurotrophic factor; Nerve growth factor; Spinal cord; Peripheral inflammation; Pain; Immunohistochemistry (Cho, H.-J. (764) 269)

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QX-314; Lidocaine; Dorsal horn; Neuroma; Vagus nerve; Heart rate; Blood pressure; Pain; Local anesthetic; Na^+ channel blocker (Omana-Zapata, I. (771) 228)

Neuroprotection; Nitric oxide synthase; Nitric oxide; Cyclic guanosine 3′,5′-monophosphate; Dissociated cell culture (Thippeswamy, T. (774) 116)

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Ba^{2+} modulation of etorphine effect; Ca^{2+} current; Dual opioid regulation of K^{2+} conductance; Inward K^+ conductance; Patch-clamp whole-cell recording (Fan, S.-f. (754) 303)

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Angiotensin II; Neuropeptide; Heart rate; Blood pressure; Angiotensin II AT_1 receptor; Trout (Pamantung, T.F. (772) 167)

Dorsal vagal nucleus
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Dose-dependent effect
Male sexual behavior; Glutamate receptors; Kainic acid; Acute treatment (Drago, F. (778) 135)

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Double immunocytochemistry
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Double-label immunocytochemistry
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Double labeling
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Down syndrome
Trisomic mouse; β-Adrenoceptor; Hippocampus; Cerebral cortex; Cerebellum (Dierssen, M. (749) 238)

S-182; Presenilin-1; Monoclonal antibody; Immunolabeling; Alzheimer disease; Rat; Mice (Kim, K.S. (757) 159)

Oxidative stress; Glutathione; Cell death; Cystine; Glutamate; Mouse trisomy 16; Alzheimer's disease (Stabel-Burow, J. (765) 313)

S-100β; MAP-2; Neuronal cytoskeleton; Alzheimer's disease; Hippocampus; Dendrite; Neurofibrillary tangle (Whitaker-Azmitia, P.M. (776) 51)

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Ibogaine; Antinociception; Tolerance; Morphine; U-50,488H; Opioid receptor agonist; Mouse (Cao, Y.-J. (752) 250)

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Enkephalin; Dynorphin-A; DAMGO; Opioid receptor; DRG neuron; $GABA_A$ receptor (Xi, Z.-X. (758) 163)

$DPheCRF_{12-41}$
Norepinephrine; Electroencephalographic activity; Kynurenic acid; Rat; Irritable bowel syndrome (Lechner, S.M. (756) 114)

2-D polyacrylamide gel electrophoresis
Phosphorylation; Peptide mapping; Facilitation; Learning; Memory; Intermediate filament protein; Ca^{2+}-binding protein (Homayouni, R. (750) 87)

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Extracellular dopamine level; Striatum; Accumbens; Locomotor activity; PD128907; R-(+)-7-OH-DPAT; PD151328; Haloperidol; Amphetamine (De Boer, P. (758) 83)

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DRG neuron
Enkephalin; Dynorphin-A; DPDPE; DAMGO; Opioid receptor; $GABA_A$ receptor (Xi, Z.-X. (758) 163)

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Drinking
Fos; Subfornical organ; Organum vasculosum of the lamina terminalis; AT_1 antagonist; Angiotensin; Converting enzyme inhibitors (McKinley, M.J. (747) 43)

Acetylcholine; Atropine; Streptozotocin; Diabetes mellitus; Lateral hypothalamus (Murzi, E. (752) 184)

Drinking behavior
Angiotensin II; *c-fos*; Calcium channel; Forebrain; Nifedipine (Zhu, B. (778) 206)

Drosophila melanogaster
Cloned octopamine/tyramine receptor; *Xenopus* oocyte expression; Calcium; Antisense oligonucleotide; G-protein coupling (Reale, V. (769) 309)

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Behavioral sensitization; Cocaine; Nitric oxide; Stereotypy; Stimulant (Haracz, J.L. (746) 183)

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Drug delivery
Ion homeostasis; Brain microvasculature; Brain tumor; Drug development; Alternative testing; Cell culture; Neurodegenerative disorder (Stanness, K.A. (771) 329)

Drug development
Ion homeostasis; Brain microvasculature; Drug delivery; Brain tumor; Alternative testing; Cell culture; Neurodegenerative disorder (Stanness, K.A. (771) 329)

Drug discrimination
Ethanol; $GABA_A$ receptor complex; Neurosteroid; Picrotoxin; Rat (Bienkowski, P. (753) 348)

Drug of abuse
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Brain stimulation reward; Cocaine; Dizocilpine; Dopamine; MK-801; NMDA receptor; Reinforcement; Reward; Self-stimulation (Ranaldi, R. (760) 231)

Drug reinforcement
Pharmacogenetics; Inbred strains; Operant responding; Cocaine plasma levels; Vulnerability to drug abuse (Kosten, T.A. (778) 418)

Drug screening
Dopamine; Glutamate; Striatum; Substantia nigra; MPTP; Neurodegeneration; Excitotoxicity (Kanthasamy, A.G. (759) 1)

Drug self-administration
Ibogaine; Noribogaine; Morphine; κ-Opioid receptor; *N*-Methyl-D-aspartate receptor; Addiction; In vivo microdialysis (Glick, S.D. (749) 340)

Drug tolerance
Morphine; Opiate; Opioid; Drug withdrawal; Adenosine; Nucleoside transporter; Mouse brain (Kaplan, G.B. (763) 215)

Drug withdrawal
Morphine; Opiate; Opioid; Drug tolerance; Adenosine; Nucleoside transporter; Mouse brain (Kaplan, G.B. (763) 215)

Dual opioid regulation of K^{2+} conductance
Ba^{2+} modulation of etorphine effect; Ca^{2+} current; Dorsal root ganglion neuron; Inward K^+ conductance; Patch-clamp whole-cell recording (Fan, S.-f. (754) 303)

Dynorphin
Substance P; Enkephalin; Scopolamine; Oxotremorine; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (748) 62)

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Dynorphin(1–13)
Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Opioid peptide; Brain region; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

Dynorphin-A
Enkephalin; DPDPE; DAMGO; Opioid receptor; DRG neuron; $GABA_A$ receptor (Xi, Z.-X. (758) 163)

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Dynorphin A (1–8)
Polyarthritis; Met-enkephalin; mRNA; Rat dorsal root ganglia; In vivo spinal release (Pohl, M. (749) 18)

Dynorphin A(1–13)NH_2
Orphanin FQ; Nociceptin; LC132 receptor; Guinea pig ileum; Mouse vas deferens; Naloxone; [D-Pen^2,D-Pen^5]Enkephalin (Zhang, G. (772) 102)

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Dystrophic retina
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E

EAAT4
Glutamate transporter; Cerebellum; Purkinje cell; Development (Itoh, M. (767) 265)

Early-gene
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Earthworm
Octopamine; Peripheral nervous system; Gut; *Eisenia fetida*; Immunocytochemistry; HPLC (Csoknya, M. (778) 414)

E-cadherin
Bovine brain microvessel endothelial cells (BBMECs); Cell adhesion molecules; Ca^{2+}-dependent; Decapeptide; Immunofluorescence; Cell-cell adhesion (Pal, D. (747) 103)

Eccentric exercise
Muscle damage; Muscle spindle; Tendon organ; Proprioception; Fatigue; Soreness; Voluntary contraction (Brockett, C. (771) 251)

Ectopic neuron
Alcohol; Axonal pruning; Fetal alcohol syndrome; Neuronal generation; Neuronal migration (Miller, M.W. (766) 121)

EEG
Gamma oscillation; Barrel cortex; Rat (Jones, M.S. (768) 167)

Efferent
Vestibular; Nicotinic acetylcholine receptor; RT-PCR; Scarpa's ganglion; Hair cell; Crista; Macula (Anderson, A.D. (778) 409)

Eisenia fetida
Octopamine; Peripheral nervous system; Gut; Earthworm; Immunocytochemistry; HPLC (Csoknya, M. (778) 414)

Ejaculation
L_6–S_1 trunk; Lumbosacral trunk; Motor branch; Scrotum nerve (Pacheco, P. (763) 202)

Sexual reflex; Urethrogenital reflex; Spinal cord; Sexual function (Durán, I. (775) 1)

Elasmobranch
Dorsal octavolateralis nucleus; Electroreception; Interneuron; Noise suppression (Duman, C.H. (771) 80)

Elastase
Blood–brain barrier; Brain edema; Cathepsin G; Cerebral capillary; Intracerebral hemorrhage; Neutral protease; Plasmin (Armao, D. (767) 259)

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Vasoactive intestinal polypeptide; Neuropeptide Y; Lacrimal gland; Protein secretion; Pig (Adeghate, E.A. (758) 127)

Electrical kindling
Epileptogenesis; Presynaptic glutamate receptor; Seizure; L-AP4; MPPG; In vitro $^{45}Ca^{2+}$ uptake; In vitro [^{3}H]D-aspartate release (Abdul-Ghani, A.-S. (755) 202)

Electrical stimulation
6-Hydroxydopamine lesion; Dopamine release and uptake; Voltammetry; Nigrostriatal dopamine neuron; Striatum (Garris, P.A. (753) 225)

Reticular formation; Fictive locomotion; NMDA; Central pattern generator; Lamprey (Guertin, P. (753) 328)

Serotonin (5-HT); Fast cyclic voltammetry; Lateral geniculate nucleus; 5-HT_{1B}; 5-HT_{1D}; 5-HT uptake; Paroxetine (Davidson, C. (760) 238)

Nociception; Pain; Spinal cord (Romita, V.V. (761) 192)

Microdialysis, in vivo; Glutamate; Medial vestibular nucleus; Neurotransmitter; Vestibular nerve (Yamanaka, T. (762) 243)

Midbrain locomotor region; Swimming; Teleost; Chemical stimulation (Uematsu, K. (773) 1)

Electrical stimulus
Amygdala; Ventral noradrenergic bundle; Hypothalamo-pituitary-adrenal axis; Negative feedback (Weidenfeld, J. (754) 187)

Electrical synapse
Retina; Connexin; Gap junction; Immunoblot; Immunohistochemistry; Cx43; Müller cell (Giblin, L.J. (755) 146)

Electrochemistry, in vivo
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Electroconvulsive shock
Modified electroconvulsive shock seizure; Modified electroconvulsive shock; Electroconvulsive therapy; Evoked potential; Hippocampus (Gombos, Z. (766) 168)

Dopamine; Fractional release; Striatum; Presynaptic mechanism (Passarelli, F. (774) 239)

Electroconvulsive therapy
Modified electroconvulsive shock seizure; Modified electroconvulsive shock; Electroconvulsive shock; Evoked potential; Hippocampus (Gombos, Z. (766) 168)

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Cerebral blood flow; Hypercapnia; Nitric oxide; Adenosine; Caffeine; Cortical arousal (Estevez, A.Y. (758) 1)

Electroencephalogram
Extended sleep; Spectral analysis; Spindle frequency activity; Slow-wave activity; Thalamocortical neurons (Aeschbach, D. (748) 131)

Betaxolol; Serotonin-1A; β-Adrenoceptor; Autoreceptor; Power spectral analysis; Rapid eye movement (REM) (Seifritz, E. (759) 84)

Basal forebrain; Urethane-anesthetized rat; Unit recording; Low-voltage fast activity; Slow wave; Cortical arousal (Détári, L. (759) 112)

Corticotropin releasing factor; Corticotropin releasing factor receptor; Seizure model; Selective antagonist; Limbic epilepsy (Baram, T.Z. (770) 89)

Electroencephalographic activity
Norepinephrine; $DPheCRF_{12-41}$; Kynurenic acid; Rat; Irritable bowel syndrome (Lechner, S.M. (756) 114)

Electroencephalographic spectral analysis
Endotoxin; Tumor necrosis factor; Sleep; Brain temperature; Rat (Lancel, M. (770) 184)

Electroencephalography
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Dexmedetomidine; α_2-adrenergic agonist; Anesthetic; Halothane; Electromyography (Farber, N.E. (774) 131)

BW 373U86; δ Opioid; Hippocampus; Naltrindole; θ Activity (Marrosu, F. (776) 24)

Electroencephalography (EEG)
Power spectrum; Carbachol; Nucleus reticularis pontis oralis; Acetylcholine; Brainstem (Garzón, M. (766) 266)

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Hippocampus; Subiculum; Operant learning; Ibotenic acid lesion; Acquisition; Retention (Govindaiah, (745) 121)

Nucleus accumbens; Core; Shell; Sensorimotor gating; Startle reflex (Kodsi, M.H. (773) 45)

Electromyogram (EMG)
Balance; Neuromuscular pattern; Postural muscle; Postural adjustment; Voluntary movement; Rapid arm flexion (Benvenuti, F. (761) 59)

Electromyography
Startle; Attention; Experimental set; Reaction time; Reticulo-spinal pathway; Habituation (Valls-Solé, J. (751) 155)

Biarticular leg muscle; Force control; Motor control (Doorenbosch, C.A.M. (751) 239)

Dexmedetomidine; α_2-adrenergic agonist; Anesthetic; Halothane; Electroencephalography (Farber, N.E. (774) 131)

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Galanin; Autoradiography; Immunocytochemistry; Median eminence; Nerve ending; Tanycyte; Guinea pig (Dutriez, I. (753) 36)

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Carnosine; Glutamate; Frog retina; Immunocytochemistry; Zinc; Neurotransmission (Panzanelli, P. (758) 143)

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Ca^{2+}-ATPase; Calcium homeostasis; Cell culture; Endoplasmic reticulum; Protein synthesis; Ribosomal aggregation (Doutheil, J. (775) 43)

Striatum; Synapse; Immunocytochemistry; Synaptic circuitry; Feed-forward inhibition; Nitric oxide (Morello, M. (776) 30)

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Electrophysiology
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Striatum; Putamen; Rat; Single unit recording; Somatotopy (Cho, J. (756) 241)

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Adrenergic; Imidazoline; Inward rectification; Neuromodulation; Respiration; Tongue; Voltage clamp (Parkis, M.A. (769) 108)

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ELISA
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El mouse
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Endocytosis
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Aminoglycoside; Hair cell; Lysosome; Trafficking; Toxicity; Chicken (Hashino, E. (777) 75)

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Endothelial cell
Blood–brain barrier; Endothelial barrier antigen; Pial microvessel; Immunocytochemistry (Cassella, J.P. (744) 335)

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Endothelin ET_B receptor; Nitric oxide synthase; Cerebral apoplexy; Stroke-prone spontaneously hypertensive rat (Sakurai-Yamashita, Y. (756) 61)

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Endothelin ET_A receptor; Nitric oxide synthase; Cerebral apoplexy; Stroke-prone spontaneously hypertensive rat (Sakurai-Yamashita, Y. (756) 61)

Endothelium
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Energy balance
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Energy metabolism
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μ-Opioid receptor; Locus coeruleus; Morphine; Monkey; Immunohistochemistry (Chen, J. (755) 326)

Dynorphin-A; DPDPE; DAMGO; Opioid receptor; DRG neuron; $GABA_A$ receptor (Xi, Z.-X. (758) 163)

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Entorhinal cortex lesion
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Suprachiasmatic nucleus; Circadian rhythm; Wheel running; Non-photic zeitgeber; Food restriction (Marchant, E.G. (765) 273)

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Enzyme electrode
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ADP-ribosylation; Kindling; Hippocampus; Nitric oxide; Antiepileptic drug; Glyceraldehyde-3-phosphate dehydrogenase (Suzuki, K. (745) 109)

Immunocytochemistry; Opioid peptide; Recurrent seizure; Hippocampal plasticity (Simpson, J.N. (747) 318)

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Evans blue dye; Glutamate; Non-NMDA receptor; Limbic seizure; Microdialysis; Rat (Dürmüller, N. (753) 283)

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Transfer; Kindling; Amygdala; Perirhinal cortex; Frontal cortex (Buchanan, J.-A.M. (771) 71)

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Epileptiform activity
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Epileptogenesis
GABAergic inhibition; Seizure; El mouse; Dentate gyrus; Hippocampus; Disinhibition; Growth (Ono, T. (745) 165)

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Epinephrine
C-fiber; Polymodal nociceptor; α_2-Adrenoceptor; Causalgia; Sympathetic pain; Sympathetic stimulation; Nerve injury (O'Halloran, K.D. (759) 233)

β-Endorphin; Hypothalamic–pituitary–adrenal axis; Norepinephrine; Opioid; Naloxone; Restraint stress (Yamauchi, N. (777) 140)

Epiphysis cerebri
Glycogen; Lactic acid; Norepinephrine; Adrenoceptor; Desensitization (Eugenín, E.A. (760) 34)

EP_1 receptor
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Peripheral benzodiazepine receptor; Central benzodiazepine receptor; Progesterone; Corticosterone; Steroidogenesis (Weizman, R. (772) 203)

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Estradiol neurotoxicity
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Dopamine; 3,4-Dihydroxyphenylalanine; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Dihydrotestosterone; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

Pregnancy; Progesterone; Spinal cord; Opioid analgesia; Gender (Dawson-Basoa, M. (757) 37)

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Alzheimer's disease; Heme; Muscarinic receptor; Free radical; Thiyl radical; Antioxidant; Vitamin E (Venters Jr., H.D. (764) 93)

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Estrous cyclicity
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Ethanol
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$GABA_A$ receptor complex; Neurosteroid; Picrotoxin; Drug discrimination; Rat (Bienkowski, P. (753) 348)

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Ethidium homodimer
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Etorphine
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Evans blue concentration
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Human cerebellum; Median nerve; Functional imaging; Magnetoencephalography; Neuromagnetism (Tesche, C.D. (744) 23)

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Global ischemia; Excitotoxicity; Ischemia; Heat shock protein; 6-Nitro-7-sulphamoylbenzo(f)quinoxaline-2-3-dione (NBQX) (Kawaguchi, K. (746) 59)

Kunming mouse; Excitotoxicity; Late stage of pregnancy; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Spatial learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Cerebral contusion; Microdialysis; Cerebral blood flow; Extravasation; Autoradiography; Rat (Koizumi, H. (747) 304)

Blood pressure; Brainstem; Microdialysis; Exercise; Caudal ventrolateral medulla (Hand, G.A. (748) 211)

Cerebral ischemia; Sodium channel; Glutamate (Kawaguchi, K. (749) 131)

Ventrolateral medulla; Blood pressure; Sympathetic nervous system; Dahl salt-sensitive rat; Glutamate receptor (Tsuchihashi, T. (750) 195)

Neonatal rat; Hypoxia-ischemia; Neurotoxicity; Cysteine (Puka-Sundvall, M. (750) 325)

Sympathetic nervous system; Neuropeptide; Spinal cord (Beyaert, C.A. (759) 175)

Glial fibrillary acidic protein; Vimentin; Protein phosphorylation; Kainic acid; Neurotoxicity; Gliosis; Astrocyte (Lenz, G. (764) 188)

Opiate withdrawal; Locus coeruleus; Norepinephrine; Electrophysiology (Aston-Jones, G. (765) 331)

Excitotoxicity; Growth factor; Ganglioside; Retinal neuron (Heidinger, V. (767) 279)

Norepinephrine; Locus coeruleus; Prefrontal cortex; 2-Amino-5-phosphonopentanoic acid; 6-Cyano-7-nitroquinoxaline-2,3-dione (Jodo, E. (768) 327)

5-Hydroxytryptamine; Perforant pathway; Postsynaptic inhibition; Temporoammonic projection; Glutamate (Grünschlag, C.R. (770) 10)

Glutamate; DL-Threo-β-hydroxyaspartate; Glutamate transporter; 1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor; Spinal cord; Amyotrophic lateral sclerosis; Neurotoxicity (Hirata, A. (771) 37)

AMPA receptor; Morphine dependence; LY293558; Withdrawal jumping; Morphine tolerance (McLemore, G.L. (778) 120)

Presynaptic inhibition; Paired pulse facilitation; Purinergic (Flagmeyer, I. (778) 178)

Excitatory amino acid receptor
Phosphonovaleric acid; Cardiovascular regulation; Cardiovagal excitation; Sympatho-excitation; Autonomic regulation (Colombari, E. (749) 209)

Afferent C-fiber; Cardiopulmonary receptor; Neurogenic hypertension; Neurotransmission (Chianca Jr., D.A. (756) 46)

Excitatory opioid receptor antagonist
Naltrexone; Etorphine; Opioid tolerance and dependence; Tail-flick assay; Withdrawal jumping assay (Shen, K.-F. (757) 176)

Excitatory postsynaptic current
Hypertonia; Osmotic effect; Cell volume; Perforated patch clamp; Whole-cell patch clamp; Ion channel; Voltage-gated current; Synaptic current; Freshly isolated cell (Huang, R. (748) 157)

Plasmin; Inhibitory postsynaptic current; CA1 pyramidal cell; γ-Aminobutyric acid (GABA); Whole-cell recording; Hippocampal slice; Rat (Mizutani, A. (761) 93)

Excitatory post-synaptic potential
Long-term potentiation; Purinoceptor; Adenosine A_{2b} receptor; Synaptic transmission (Kessey, K. (756) 184)

NMDA receptor; Medial prefrontal cortex (Arvanov, V.L. (768) 361)

Excitatory synapse
Amygdala; Inhibitory avoidance task; Calcium/calmodulin-dependent protein kinase II; KN-6 (Tan, S.-E. (748) 227)

Excitotoxicity
Spine density; Axonal sprouting; Sholl analysis (Isokawa, M. (744) 339)

Global ischemia; Excitatory amino acid; Ischemia; Heat shock protein; 6-Nitro-7-sulphamoylbenzo(f)quinoxaline-2-3-dione (NBQX) (Kawaguchi, K. (746) 59)

N-Methyl-D-aspartate; Glycine; Glutamate; Ischemia; Microdialysis; Extracellular field (DC) potential (Obrenovitch, T.P. (746) 190)

Excitatory amino acid; Kunming mouse; Late stage of pregnancy; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Spatial learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Thyrotropin-releasing hormone (TRH); Soman; Seizure; Metabolism; Acetylcholine; Organophosphorus (Kubek, M.J. (747) 328)

Nitric oxide; Visual cortex; Glutamate receptor; NMDA receptor; Retrograde messenger; Axo-axonic interaction; LTP; Immuno-electron microscopy (Aoki, C. (750) 25)

Peripheral benzodiazepine receptor; PK-11195; Domoic acid; Biomarker; Water maze; Hippocampus (Kuhlmann, A.C. (751) 281)

Cyanide; Glutamate; K_{ATP} channels; Neuroprotection; Tolbutamide (Wind, T. (751) 295)

Stroke; Focal cerebral ischemia; Photothrombosis; Krypton laser; Rose bengal (Yao, H. (753) 80)

Seizure; Kainate; Deep prepiriform cortex; Hippocampus (Kawaguchi, K. (753) 152)

Dopamine; Glutamate; Striatum; Substantia nigra; MPTP; Neurodegeneration; Drug screening (Kanthasamy, A.G. (759) 1)

Apoptosis; Cyclosporine; Development; Neuronal culture; *N*-Methyl-D-aspartate (NMDA) (McDonald, J.W. (759) 228)

NMDA; Glutamate receptor; Steroid; Estradiol; Calcium; Neuroprotection (Weaver Jr., C.E. (761) 338)

Organotypic hippocampal culture; Neuron/glia interaction; Adenosine deaminase; Neuroprotection; Ischemia; NOS inhibitor (Barth, A. (762) 79)

Chronic lithium; Apoptosis; Neuroprotection; Polyamine (Sparapani, M. (765) 164)

Reactive oxygen species; Mitochondrial metabolic activity; Lipid peroxidation; Neuron degeneration; Superoxide dismutase; Catalase; Glutathione peroxidase (Azbill, R.D. (765) 283)

Histamine; Infrared differential interference contrast videomicroscopy; Neostriatum; NMDA; Swelling (Colwell, C.S. (766) 205)

Growth factor; Ganglioside; Retinal neuron; Excitatory amino acid (Heidinger, V. (767) 279)

Glutamate; 2-Deoxyglucose; Cerebellar granule cell (Minervini, M. (768) 57)

1*S*,3*R*-ACPD; Quinolinic acid; Kainic acid; NMDA receptor; Apoptosis; Neurodegeneration (Wang, Y. (772) 45)

NMDA receptor; Huntington's disease; Neuroprotection; Basal ganglia; Hydroxyl radical; Nitric oxide; Indazole (Bazzett, T. (775) 229)

Excitotoxic lesion
Anteroventral third ventricle; Ouabain; Cerebrospinal fluid sodium; Angiotensin II (Veerasingham, S.J. (749) 157)

Excitotoxin
Anesthesia; Cholinergic; Mesopontine; Locus coeruleus (Inglis, W.L. (755) 17)

Preoptic area; Testosterone; Brain lesion; NMDA (*N*-methyl-D-aspartate); Sex behavior; Aromatase; Musk shrew (Veney, S.L. (756) 273)

Exercise
Blood pressure; Brainstem; Excitatory amino acid; Microdialysis; Caudal ventrolateral medulla (Hand, G.A. (748) 211)

Exercise pressor reflex
c-Fos; Static muscle contraction; Vasopressin; Oxytocin; Hypothalamus; Cat (Li, J. (752) 45)

Exocytosis
Synaptic vesicle; Quantal release; Morphometry; Endocytosis; Vesicle hypothesis; Acetylcholine; *Torpedo* electric organ; KCl stimulation; Sucrose stimulation (Fox, G.Q. (755) 47)

Arachidonic acid; Hippocampus; Synaptosome; Amino acid; Uptake carrier; Protein kinase C (Breukel, A.I.M. (773) 90)

Exon
Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Experimental muscle pain
Hypertonic saline; Referred pain; Stimulus–response function; Referred sensibility change (Graven-Nielsen, T. (744) 121)

Experimental set
Startle; Attention; Reaction time; Reticulo-spinal pathway; Habituation; Electromyography (Valls-Solé, J. (751) 155)

Expiration-related medullary neurons
Bötzinger complex; Nucleus retrofacialis; Respiratory control; DL-Homocysteic acid; Ventral respiratory group; Rabbit; Expiratory activity (Bongianni, F. (749) 1)

Expiratory activity
Bötzinger complex; Nucleus retrofacialis; Respiratory control; DL-Homocysteic acid; Expiration-related medullary neurons; Ventral respiratory group; Rabbit (Bongianni, F. (749) 1)

Expiratory neuron
Spontaneous augmented breath; Dorsal respiratory group; Ventral respiratory group; Inspiratory neuron; Extracellular recording (Takeda, M. (749) 95)

Explant culture
Nerve regeneration; Sympathetic ganglia; Superior cervical ganglion; Neuropeptide; Neuropeptide expression; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Expression
Calpain; Spinal cord; Trauma; Neurofilament protein; Proteinase (Banik, N.L. (752) 301)

Express saccade
Saccade; Antisaccade; Voluntary saccade; Fixation; Attention; Frontal lobe (Fischer, B. (754) 285)

Extended sleep
Electroencephalogram; Spectral analysis; Spindle frequency activity; Slow-wave activity; Thalamocortical neurons (Aeschbach, D. (748) 131)

Extracellular dopamine level
Striatum; Accumbens; D_3 receptor; Locomotor activity; PD128907; R-(+)-7-OH-DPAT; PD151328; Haloperidol; Amphetamine (De Boer, P. (758) 83)

Extracellular field (DC) potential
N-Methyl-D-aspartate; Glycine; Glutamate; Excitotoxicity; Ischemia; Microdialysis (Obrenovitch, T.P. (746) 190)

Extracellular glutamate
Striatum; Microdialysis (Shiraishi, M. (759) 221)

Extracellular K^+
Medicinal leech; Intracellular Ca^{2+}; Ca^{2+} channel; Polyvalent cation; Menthol (Dierkes, P.W. (746) 285)

Extracellular matrix
Basement membrane; Blood vessel; Central nervous system; Hippocampus; Limbic; Synapse; Tanycyte (Hagg, T. (764) 17)

Rat glial cell; Trophic factor; Adhesion molecule (Mahler, M. (775) 63)

Extracellular pH
CO; HEPES buffer; Hypoxia; Intracellular pH; Proton pump (Osanai, S. (764) 221)

Extracellular recording
Spontaneous augmented breath; Dorsal respiratory group; Ventral respiratory group; Inspiratory neuron; Expiratory neuron (Takeda, M. (749) 95)

Cortical reorganization; Neuronal plasticity; Single unit activity; Activity pattern (Webster, H.H. (750) 109)

Bursting activity; Interspike interval; Autocorrelogram; Discharge pattern analysis (Martinson, J. (750) 129)

Baroreceptor-related neuron; Insular cortex; Lateralisation; Rat (Zhang, Z. (760) 243)

Single neuron; Nucleus accumbens; Subterritory; Shell; Core; Rat; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Brain slice; Temperature; Hypothalamus (Burgoon, P.W. (777) 31)

Extracellular signal regulated kinase 1
Axotomy; Rat; Vagus nerve; Hypoglossal nerve; Hybridization, in situ (Mishima, K. (766) 50)

Extrapyramidal
Deoxyglucose; Clozapine; Limbic system; Haloperidol; Nucleus accumbens (Colangelo, V. (768) 273)

Extrastriate visual cortex
Striate cortex; Subcortical visual pathway; Calcium-binding protein; Visual system; Thalamus; Primate (Gutierrez, C. (765) 349)

Extravasation
Cerebral contusion; Excitatory amino acid; Microdialysis; Cerebral blood flow; Autoradiography; Rat (Koizumi, H. (747) 304)

Eye
Calcium binding protein; Gastropod; Nervous system; Bag cell; Mollusc; Immunocytochemistry (Kerschbaum, H.H. (746) 133)

Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Proliferation; Opioid; Naltrexone; [Met^5]-enkephalin; Cell renewal (Zagon, I.S. (759) 92)

Eye movement
WGA-HRP; Cat; Cerebellum; Lateral cerebellar nucleus; Interposed cerebellar nucleus (Verveer, C. (766) 289)

Eyestalk ganglion
Opioid receptor subtype; Enkephalin; Radioligand binding; Crustacea (Hanke, J. (744) 279)

F

Facial nerve
Taste; Electrophysiology; Mixture; Quinine; Amino acid; Catfish (Ogawa, K. (769) 263)

Facilitation
Phosphorylation; 2-D polyacrylamide gel electrophoresis; Peptide mapping; Learning; Memory; Intermediate filament protein; Ca^{2+}-binding protein (Homayouni, R. (750) 87)

Serotonin; Augmentation; Residual calcium; Presynaptic enhancement (Qian, S.-M. (771) 259)

Fasciculus retroflexus
DOPA; Metabolism; Dopamine; Serotonin; Medial forebrain bundle; Neurotoxin; 5,7-Dihydroxytryptamine; Radiotracer (Cumming, P. (747) 60)

Fast blue
Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Callosal neuron; Callosotomy; Retrograde double labeling; Diamidino Yellow · 2HCl (DY · 2HCl); Rat (Orihara, Y.I. (778) 393)

Fast cyclic voltammetry
Serotonin (5-HT); Lateral geniculate nucleus; Electrical stimulation; 5-HT_{1B}; 5-HT_{1D}; 5-HT uptake; Paroxetine (Davidson, C. (760) 238)

Fast Fourier transformation
Stroke; Cardiac susceptibility; Noise stress; Air-jet stimulation; Heart rate variability (Cheung, R.T.F. (747) 181)

Fasting
Food deprivation; Water deprivation; Hyperoxia; Diving; High oxygen pressure; Epilepsy (Bitterman, N. (761) 146)

Fast-scan cyclic voltammetry
Dopamine efflux; Free-choice novelty; Nucleus accumbens: core; Shell; Shore (Rebec, G.V. (776) 61)

Fast wave
Piriform cortex; Olfaction; Odor; Antimuscarinic; Behavior (Zibrowski, E.M. (766) 39)

Fat
Hypothalamus; Infusion; Diet selection; Carbohydrate; Protein; Enriched; Macronutrient (Van Dijk, G. (777) 147)

Fatigue
Eccentric exercise; Muscle damage; Muscle spindle; Tendon organ; Proprioception; Soreness; Voluntary contraction (Brockett, C. (771) 251)

Fatty acid
Neurotoxicity; Autoradiography; Palmitic acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

FBP (fructose-1,6-bisphosphate)
c-fos; hsp70; Brain slice; Neonate; Hypoxia (Hasegawa, K. (750) 1)

FCA18 antibody
Alzheimer's disease; β-Secretase; Cathepsin D; Acidic protease; Recombinant βAPP; Swedish mutation (Chevallier, N. (750) 11)

F-11 cell
μ and δ opioid receptor; High threshold Ba^{2+} current; N-type Ca^{2+} channel (Nah, S.-Y. (766) 66)

Fear
Conditioning; Calcium; Hippocampus; Thalamus; Glutamate; Diacylgylcerol (DAG) (Shors, T.J. (750) 293)

Forced swim; Restraint; Plus maze; Chloride ion flux; Anxiety; Rat (Martijena, I.D. (752) 136)

Hippocampus; Cholinergic; Stress; Adrenocorticotropin; Corticosterone; Theta (Bhatnagar, S. (766) 244)

Fear-potentiated startle
Ventral tegmental area; Quinpirole; Muscimol; Dopamine neuron; γ-aminobutyric $acid_A$ receptor; Aversive emotional arousal (Munro, L.J. (746) 231)

Feedback
Rat; Circadian rhythm; Estrous cycle; Vasoactive intestinal peptide; Vasopressin (Van der Beek, E.M. (755) 101)

Feed-forward inhibition
Striatum; Synapse; Electron microscopy; Immunocytochemistry; Synaptic circuitry; Nitric oxide (Morello, M. (776) 30)

Feeding
Brain microdialysis; Capillary zone electrophoresis; Glutamate; Rat (Rada, P. (768) 338)

Interleukin-1; Interleukin-6; Tumor necrosis factor α; Endotoxin; Influenza virus; IL-1-receptor antagonist (Swiergiel, A.H. (776) 96)

Feeding behavior
Glucagon-like peptide-1 (GLP-1); Central; Chicken; Mammal (Furuse, M. (755) 167)

Glucagon-like peptide-1 (GLP-1); Neuropeptide Y (NPY); Central; Chicken (Furuse, M. (764) 289)

Female
$GABA_A$ receptor; Neurosteroid; Benzodiazepine; Medulla; 3α-Hydroxy-5α-pregnan-20-one; Allopregnanolone; Rat (Garrett, K.M. (768) 301)

Female rat
Gonadotropin releasing hormone; Septal area; Preoptic area; Vasomotion; Thermoregulation; Hot flush (Hosono, T. (754) 88)

Fenfluramine
Serotonin; Neurotoxicity; Anorexia; Discriminative stimulus effect; Amphetamine (Fasciano, J. (763) 182)

Amphetamine; Neurotoxicity; Temperature; Thermoregulation; 5-HT; 5-HIAA (Malberg, J.E. (765) 101)

Fentanyl
Jaw-opening reflex (JOR); Tooth-pulp; Opioid; Transcranial electrical stimulation (TCES); Rat (Alantar, A. (763) 14)

Behavior; Cadmium; Morphine; Opiate; Place preference (Miller, D.K. (776) 162)

Fetal alcohol syndrome
Alcohol; Axonal pruning; Ectopic neuron; Neuronal generation; Neuronal migration (Miller, M.W. (766) 121)

Alcohol; Cell cycle; Growth factor; Kinetics; Neuroblastoma; Proliferation; Receptor (Luo, J. (770) 139)

Fetal spinal cord
Transplantation; Muscle reinnervation; Spinal neuron; Sciatic nerve; Axonal growth; Choline acetyltransferase; Cholera toxin B (Katsuki, M. (771) 31)

Fetus
Breathing movement; Hypoxia; Fos immunohistochemistry; Parabrachial neuron (Breen, S. (748) 107)

Brain; Breathing; Metabolism; Respiration (Koos, B.J. (778) 439)

Fever
Prostaglandin E_2 (PGE_2); Macrophage inflammatory protein-1β (MIP-1β); Chemokine; Hypothalamus; Organum vasculosum laminae terminalis (OVLT); Preoptic area (Armengol, J.A. (748) 245)

Prostaglandin E_2; Hyperthermia; EP_1 receptor; 17-Phenyl-ω-trinor prostaglandin E_2; Diagonal band of Broca; Anterior wall of the third ventricle (Oka, K. (767) 92)

Interleukin-1β; Interleukin-6; Prenatal stress; Hypothalamic-pituitary-adrenal axis; Monkey (Reyes, T.M. (769) 29)

6-[^{18}F]Fluoro-L-DOPA
Positron emission tomography; 6-[^{18}F]Fluoro-L-*m*-tyrosine; Dopamine; Kinetics; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey (Jordan, S. (750) 264)

Positron emission tomography; 3-*O*-Methyl-6-[^{18}F]fluoro-L-DOPA; Aromatic amino acid decarboxylase; Carbidopa; Catechol-*O*-methyltransferase; COMT inhibitors: CGP 28014, OR-611, Ro 40-7592 (Psylla, M. (767) 45)

6-[^{18}F]Fluoro-L-*m*-tyrosine
Positron emission tomography; Dopamine; Kinetics; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey; 6-[^{18}F]Fluoro-L-DOPA (Jordan, S. (750) 264)

FG7142
Pentobarbital sleep; Noradrenergic system; Flumazenil; $GABA_A$/benzodiazepine receptor; Mouse (Matsumoto, K. (754) 325)

bFGF
Kainic acid; FGR-3; Astrocyte; Microglia (Ballabriga, J. (752) 315)

FGF-2 isoform
Adrenal medulla; Chromaffin cell; PC12 cell; Glucocorticoid; Postnatal development; Rat (Meisinger, C. (757) 291)

FGR-3
Kainic acid; bFGF; Astrocyte; Microglia (Ballabriga, J. (752) 315)

Fibroblast
Transplantation; Leptomeningeal; Amyloid; Uptake; Amyloid precursor protein; Human specific (DeGiorgio, L.A. (752) 35)

Fibroblast growth factor
Plasticity; Neural activity (Gómez-Pinilla, F. (764) 1)

Fibroblast growth factor-2 (FGF-2)
Astrocyte; Glial fibrillary acidic protein (GFAP); Trauma (Reilly, J.F. (759) 277)

Fibrocyte
Stria vascularis; Marginal cell; Spiral ligament; Bumetanide-sensitive Na-K-2Cl cotransporter (Goto, S. (765) 324)

Fibronectin
Heparan sulphate proteoglycan; Collagen; Laminin; Murine (Coulson, E.J. (770) 72)

Fictive locomotion
Reticular formation; Electrical stimulation; NMDA; Central pattern generator; Lamprey (Guertin, P. (753) 328)

Field L
Avian; Parrot; Songbird; Auditory system; Nucleus basalis; Vocal learning (Farabaugh, S.M. (747) 18)

Field potential
Aging; Hippocampus; Calcium channel type; Synaptic transmission; Conotoxin; Agatoxin (Hall, S.C. (745) 339)

Cytokine; CA1; Short-term potentiation; Post-tetanic potentiation; IL-6 receptor antibody (Li, A.-J. (748) 30)

Dentate gyrus; Interneuron; Single unit; Population spike (Kao, K. (752) 90)

Hippocampal CA1; Pentylenetetrazol; Kindling-induced plasticity (Fathollahi, Y. (758) 92)

Spermine; Calcium channel; N-type Ca^{2+} channel; Mathematical model; Neurotransmission (Eterović, V.A. (772) 191)

Film model
Neural regeneration; Acrylamide; Neurofilament; Neurotubule; Migratory Schwann cell (Torigoe, K. (746) 269)

Fimbria / fornix
Temporal lobe epilepsy; Perforant path; Hippocampus; Seizure; Synaptic reorganization (Mohapel, P. (778) 186)

Firing pattern
Oscillation; Glutamate; Prepotential; Self-excitation; Mitral cell; Olfactory bulb; Rat (Chen, W.R. (745) 189)

Fischer 344 rat
Norepinephrine; Ethanol; Nomifensine; Uptake; Age; Cerebellar cortex (Lin, A.M.-Y. (756) 287)

Fish
NO; Neuronal messenger; Synaptic transmission; Central nervous system; Electron microscopy; Confocal laser scanning microscopy (Holmqvist, B. (745) 67)

Fisher 344 rat
Forced swimming test; Brown-Norway rat; Lewis rat; Spontaneously hypertensive rat; Wistar-Kyoto rat; Corticotropin-releasing factor; Depression (Lahmame, A. (750) 285)

Fixation
Saccade; Antisaccade; Voluntary saccade; Express saccade; Attention; Frontal lobe (Fischer, B. (754) 285)

Fixed interval schedule
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Dopamine; Nucleus accumbens; Dorsal striatum; Operant; Behavior (Cory-Slechta, D.A. (764) 253)

FK506
Protein phosphatase; Calcineurin; Cortical neuron; Glutamatergic synapse; Calyculin; Microcystin; Cyclosporine A (Thomas, G.D. (749) 101)

Flexor carpi radialis
Motor evoked potential; H-reflex; Motor imagery; Human (Kasai, T. (744) 147)

Flexor carpi radialis muscle
Motor evoked potential; H-reflex; Tonic voluntary contraction; Phasic voluntary contraction; Human (Kasai, T. (764) 273)

Flexor reflex
Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Neurokinin A; Spinal cord (Jia, Y.-p. (751) 169)

Flow cytometry
Alzheimer's disease; β-Amyloid; Microglia; Integrin; Nitric oxide; Tissue culture (Goodwin, J.L. (768) 279)

Cerebellar granule cell, dissociated; Rhodamine 123; Mitochondrial membrane potential; *N*-Methyl-D-aspartate; Arachidonic acid (Camins, A. (777) 69)

Fluid homeostasis
Calcium; Calcium receptor; Calcium sensing receptor; Parathyroid; G protein coupled receptor; Receptor localization; Subfornical organ; Ion homeostasis (Rogers, K.V. (744) 47)

Fluid percussion
Brain injury; Head trauma; Neurological deficit; Neuroprotection; Riluzole (Wahl, F. (756) 247)

Flumazenil
Bicuculline-induced convulsion; Sex difference; Handling stress; Swim stress; Diazepam; Rat (Peričić, D. (752) 279)

Pentobarbital sleep; Noradrenergic system; FG7142; $GABA_A$/benzodiazepine receptor; Mouse (Matsumoto, K. (754) 325)

Naphthalenic compound; Melatonin agonist; Central-type benzodiazepine receptor; Bicuculline; GABAergic mechanism; Intrastriatal injection (Tenn, C.C. (756) 293)

Alphaxalone; Alprazolam; Anxiolytic; $GABA_A$ receptor; Muscimol; Neuroactive steroid; Staircase test (Pick, C.G. (765) 129)

Isoguvacine; Arterial blood pressure; Heart rate; Receptor autoradiography; Benzodiazepine; Medulla (Barron, K.W. (773) 53)

Flunarizine
Calcium antagonist; PCA50938; Nimodipine; Cerebral ischemia; Gerbil; Neuroprotection (Zapater, P. (772) 57)

Strychnine; Verapamil; Calcium channel; Epilepsy; Calcium antagonist (Straub, H. (773) 173)

Fluorescence microscopy
Focal cerebral ischemia; Microcirculation; Perfusion; Spontaneously hypertensive rat; Evans blue; Phenylephrine; Hypertension (Dawson, D.A. (749) 200)

Fluorescent microsphere
Superior colliculus; Brainstem; Afferent connections; Topographic projection; Horseradish peroxidase (Jiang, Z.D. (755) 279)

Fluorescent tracer
Fluoro-Jade; Neuronal degeneration; Neuropathology (Schmued, L.C. (751) 37)

Forebrain; Basal ganglia; *Lampetra fluviatilis*; Telencephalon; Immunohistochemistry (Pombal, M.A. (766) 249)

Fluorocitrate
Nitric oxide; Glial cell; Cerebellum; In vivo microdialysis; Barrel rotation; Arginine; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

Lactate; Hypoxia; Synaptic function; Glial–neuronal shuttle; Hippocampal slice (Schurr, A. (774) 221)

Fluoro-gold
Dopaminergic system; Subthalamus; Biocytin; Rat; Tyrosine hydroxylase (Hassani, O.-K. (749) 88)

Splanchnic nerve; Spinal cord; Sympathetic column; Corticotropin releasing hormone; Adrenal (Li, C. (767) 87)

Retinohypothalamic tract; Retinal ganglion cell; Hypothalamus; Lateral hypothalamic area; Suprachiasmatic nucleus; Circadian rhythm (Leak, R.K. (770) 105)

Parkinson's disease; Neural transplantation; Double transplants; Horseradish peroxidase (Mendez, I. (778) 194)

Fluoro-Jade
Neuronal degeneration; Fluorescent tracer; Neuropathology (Schmued, L.C. (751) 37)

MPTP; Parkinson's disease; Substantia nigra; Thalamus; Neuronal degeneration; Mice (Freyaldenhoven, T.E. (759) 9)

Methamphetamine; Indusium griseum; Hippocampal remnant; Seizure; Neurodegeneration; Glutamate; Catecholamine (Schmued, L.C. (759) 135)

Fluoro-Red
Choline acetyltransferase; Forebrain; Retrograde tracer; Song control nucleus; Zebra finch (Li, R. (763) 239)

Fluoxetine
Nicotine; Nicotinic acetylcholine receptor; Hippocampus; Noradrenaline release (Hennings, E.C.P. (759) 292)

Flupirtine
Global ischemia; Spatial learning; Rat (Block, F. (754) 279)

Fluspirilene
Potassium channel; Kv2.1; Antipsychotic agent; Human (Wible, B. (761) 42)

FMRFamide
Neuropeptide; Substance P; Central nervous system; Sensory afferents; Chemoreception; Immunocytochemistry; Arthropod (Schmidt, M. (746) 71)

Immunocytochemistry; Dopamine; Substance P; Brain; Crustacean; Olfaction (Schmidt, M. (752) 15)

Lymnaea stagnalis; Osphradium; Sensory neuron; γ-Aminobutyric acid (GABA); Serotonin; Electrophysiology; Transmitter interaction (Nezlin, L. (772) 217)

Dopamine; Neuropeptide; K^+-current; Neuron; Mollusc (Van Tol-Steye, H. (777) 119)

Focal cerebral ischemia
Na^+,K^+-ATPase; Ouabain site; α Isoform; Ouabain affinity (Jamme, I. (774) 123)

$T2^*$-weighted magnetic resonance imaging; Carbon dioxide reactivity; Rat (Ono, Y. (744) 207)

Brain edema; Cerebral blood flow; Polyamine; Putrescine (Başkaya, M.K. (744) 302)

Microcirculation; Perfusion; Spontaneously hypertensive rat; Fluorescence microscopy; Evans blue; Phenylephrine; Hypertension (Dawson, D.A. (749) 200)

Magnetic resonance imaging; Diffusion; Perfusion; Oxygenation; Rat brain (Dijkhuizen, R.M. (750) 161)

Reperfusion injury; DNA fragmentation; TUNEL staining (Murakami, K. (751) 160)

Stroke; Photothrombosis; Krypton laser; Rose bengal; Excitotoxicity (Yao, H. (753) 80)

Cytokine-induced neutrophil chemoattractant; Ischemic neuronal damage; Neutrophil; Rat (Yamasaki, Y. (759) 103)

Amyloid precursor protein; Rat; Axon (Yam, P.S. (760) 150)

Embolus; Rat; MRI; Laser confocal microscopy (Zhang, R.L. (766) 83)

AMPA receptor antagonist; YM90K (Umemura, K. (773) 61)

Focal ischemia
Apoptosis; Enkephalin; TUNEL; Hybridization, in situ; Rat striatum (Popovici, T. (744) 185)

Conopeptide; Calcium channel; Neuroprotection; Calcium channel blocker (Bowersox, S.S. (747) 343)

Penumbra; Phospholipase; Quinacrine; Cerebroprotection (Estevez, A.Y. (752) 203)

P/Q-type Ca^{2+} channel; ω-Agatoxin IVA; Brain edema; Infarct size; Neuroprotection (Asakura, K. (776) 140)

Folic acid
Astrocyte; Cerebellum; Cerebral cortex; Ependyma; Glia; Formate; Spinal cord; Tetrahydrofolate dehydrogenase (Neymeyer, V. (766) 195)

Follicle-stimulating hormone
Preoptic–hypothalamic; Norepinephrine; Dopamine content; 5-HIAA content; Plasma luteinizing hormone; Prolactin (Anselmo-Franci, J.A. (767) 289)

Food deprivation
Microdialysis; Somatostatin; Growth hormone; Circadian rhythm; Adenohypophysis (Ishikawa, M. (749) 226)

Fasting; Water deprivation; Hyperoxia; Diving; High oxygen pressure; Epilepsy (Bitterman, N. (761) 146)

Glucoprivic intake; Palatability; Ventral tegmental area; μ Opioid receptor; κ Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (767) 8)

Food entrainment
Circadian rhythm; Immediate early gene; Suprachiasmatic nucleus; Intergeniculate leaflet; Paraventricular thalamic nucleus (Challet, E. (770) 228)

Food intake
Immediate–early gene; Neuropeptide; Transcription factor; Immunohistochemistry (Houpt, T.A. (751) 143)

Area postrema; Nucleus of the solitary tract; Arcuate nucleus; Paraventricular nucleus; Ingestive behavior; Diet selection (Edwards, G.L. (755) 84)

Anorexia; Brain; Cachexia; Cytokine; Interleukin-1β (Finck, B.N. (761) 333)

Food motivation
Behavior; C3H/HeJ; Cytokine; Interleukin-1; Lipopolysaccharide (Johnson, R.W. (752) 219)

Food restriction
Lactation; Reproductive function; Neuropeptide Y (Abizaid, A. (761) 306)

Suprachiasmatic nucleus; Entrainment; Circadian rhythm; Wheel running; Non-photic zeitgeber (Marchant, E.G. (765) 273)

Footshock stress
Ventral tegmental area; Neuropeptide FF; Formalin test; Dopamine; Opioids; Analgesia (Altier, N. (758) 250)

Force control
Biarticular leg muscle; Motor control; Electromyography (Doorenbosch, C.A.M. (751) 239)

Forced swim
Restraint; Plus maze; Chloride ion flux; Fear; Anxiety; Rat (Martijena, I.D. (752) 136)

Forced swimming test
Brown-Norway rat; Fisher 344 rat; Lewis rat; Spontaneously hypertensive rat; Wistar-Kyoto rat; Corticotropin-releasing factor; Depression (Lahmame, A. (750) 285)

Forebrain
Dopamine; Cellular expression; Anti-peptide antisera; Hindbrain (Ariano, M.A. (746) 141)

Dopamine; Cellular expression; Anti-peptide antisera; mRNA (Ariano, M.A. (752) 26)

Choline acetyltransferase; Fluoro-Red; Retrograde tracer; Song control nucleus; Zebra finch (Li, R. (763) 239)

Basal ganglia; *Lampetra fluviatilis*; Telencephalon; Fluorescent tracer; Immunohistochemistry (Pombal, M.A. (766) 249)

Angiotensin II; *c-fos*; Calcium channel; Drinking behavior; Nifedipine (Zhu, B. (778) 206)

Forebrain ischemia
Colchicine; Hippocampus; Delayed neuronal death; CA1 neuron; Rat (Kimura, M. (774) 229)

Forepaw
Spinal cord; Regional heterogeneity; Paw withdrawal; Tail flick; Hind paw (Kusmirek, J. (767) 375)

Formalin
Pain facilitation; Hyperalgesia; Spinal cord; Rat; Nucleus tractus solitarius; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Nociception; Pain; Neonatal capsaicin; c-Fos; Blood pressure; Heart rate; Rat (Peterson, M.A. (755) 9)

Formalin test
α-Trinositol; Antinociception; Spinal microdialysis; Amino acid; Prostaglandin E_2 (Malmberg, A.B. (747) 160)

Microdialysis; Restraint; Open field; Behavior; Corticosterone (Aloisi, A.M. (748) 219)

Ventral tegmental area; Neuropeptide FF; Dopamine; Footshock stress; Opioids; Analgesia (Altier, N. (758) 250)

Formate
Astrocyte; Cerebellum; Cerebral cortex; Ependyma; Glia; Folic acid; Spinal cord; Tetrahydrofolate dehydrogenase (Neymeyer, V. (766) 195)

Forskolin
Vasoactive intestinal polypeptide; Cultured hippocampal neuron; GABAergic inhibitory postsynaptic current; cAMP; Whole-cell patch-clamp recording (Wang, H.-L. (746) 294)

Ethanol; DADLE; Cyclic AMP; Striatum; δ-Opioid receptor (Shen, J. (770) 65)

Fos
Central sensitization; Lamina X; Morphine tolerance; Rat; Sacral parasympathetic; Withdrawal (Rohde, D.S. (745) 83)

Drinking; Subfornical organ; Organum vasculosum of the lamina terminalis; AT_1 antagonist; Angiotensin; Converting enzyme inhibitors (McKinley, M.J. (747) 43)

CRF antagonist; Paraventricular nucleus of the hypothalamus; Capsaicin; Abdominal surgery; Nucleus tractus solitarii; Supraoptic nucleus (Bonaz, B. (748) 12)

Medial preoptic area; Bed nucleus of the stria terminalis; Medial nucleus of the amygdala; Testosterone; Mating behavior (Swann, J.M. (750) 189)

Limbic seizure; Wet-dog shake; Dopamine toxicity; Substantia nigra (Fan, X.D. (751) 31)

Vestibular; Otolith; Inferior olive; Semicircular canal (Marshburn, T.H. (761) 51)

Serotonin; Quipazine; Suprachiasmatic nucleus; Circadian rhythm (Moyer, R.W. (765) 337)

Amphetamine; Sensitization; Lateral habenula (Hamamura, T. (767) 140)

Nerve injury; Tissue injury; Trigeminal nucleus caudalis; Infraorbital nerve; Immunohistochemistry (Terayama, R. (768) 135)

Dexamethasone; Glucocorticoid; Hypothalamus; Immunocytochemistry; Jun; Preoptic area (Briski, K.P. (768) 185)

Immediate-early gene; Norepinephrine; Amygdala; *zif/268*; α_1-Adrenoceptor; β_1-Adrenoceptor (Stone, E.A. (778) 1)

c-Fos
Sympathetic nervous system; Cholera toxin; Diet-induced obesity (Dunn-Meynell, A.A. (748) 100)

Amphetamine; Fos related antigen; Sensitization; CREB; Psychostimulant (Turgeon, S.M. (749) 120)

Immediate-early-gene; Nitrous oxide; Halothane; Analgesia; Spinal cord; Rat (Hagihira, S. (751) 124)

Static muscle contraction; Vasopressin; Oxytocin; Hypothalamus; Exercise pressor reflex; Cat (Li, J. (752) 45)

JunB; Dorsal cochlear nucleus; Ventral cochlear nucleus; Inferior colliculus; Deprivation; Repetitive stimulation (Keilmann, A. (753) 291)

Nociception; Pain; Formalin; Neonatal capsaicin; Blood pressure; Heart rate; Rat (Peterson, M.A. (755) 9)

Ethanol; Genetics; Selected line; Locus coeruleus; Nucleus accumbens (Thiele, T.E. (756) 278)

Galanin; Activin; Nucleus tractus solitarius; Catecholamine; Immunocytochemistry; Rat (Matta, S.G. (759) 259)

Atipamezole; Locus coeruleus; Rostral ventrolateral medulla; Withdrawal; α_2-Adrenergic receptor; Catecholamine (Stornetta, R.L. (764) 81)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); c-Jun; Apoptosis; Dopaminergic neuron; Parkinson's disease (Nishi, K. (771) 133)

Fos expression
Dopamine; Nucleus accumbens; Muscimol; Microdialysis (Yoshida, M. (767) 356)

c-Fos expression
Visceral afferent; Esophagus; Stomach; Nodose ganglion; DiI in vivo tracing; Gastric distension; Solitary nucleus (Berthoud, H.-R. (746) 195)

Fos immunohistochemistry
Fetus; Breathing movement; Hypoxia; Parabrachial neuron (Breen, S. (748) 107)

Fos-like immunohistochemistry
Postnatal development; Respiratory control; Sneeze reflex; Trigeminal afferent; Brainstem; Transsynaptic labeling; Cat (Masmoudi, K. (757) 102)

Fos-like immunoreactivity
Trigeminal nucleus caudalis; Migraine; NMDA receptor; CGRP receptor; NK_1 receptor (Clayton, J.S. (775) 74)

Fos protein
Δ^9-Tetrahydrocannabinol; Desensitization; Striatum; Nucleus accumbens (Miyamoto, A. (763) 137)

Fos related antigen
Amphetamine; c-Fos; Sensitization; CREB; Psychostimulant (Turgeon, S.M. (749) 120)

Fovea
Mitochondria; Differential gene expression; Retina (Bernstein, S.L. (744) 143)

Fra
Transcription factor; Jun-D; Hippocampus; Kainic acid; Seizure; AP-1 (Feng, Z. (770) 53)

Fractional release
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Free amino acid
Brain interstitial fluid; Pentylenetetrazole (Sechi, G.P. (764) 230)

Free-choice novelty
Dopamine efflux; Fast-scan cyclic voltammetry; Nucleus accumbens: core; Shell; Shore (Rebec, G.V. (776) 61)

Freely moving rats
Estradiol; LTP; CA1; Synaptic plasticity; Memory; Stratum radiatum (Córdoba Montoya, D.A. (778) 430)

Free moving microdialysis
Behavioral recovery; Conditioning taste aversion; Neural transplantation; Glutamate; Gustatory cortex (Miranda, M.I. (759) 141)

Free radical
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Blood-brain barrier; Cerebral ischemia; Polyamine; Superoxide dismutase; Hippocampus; Rat (Wengenack, T.M. (754) 46)

Newborn; Brain slice; Ornithine decarboxylase; Malonaldehyde (Saito, K. (763) 232)

Alzheimer's disease; Heme; Muscarinic receptor; Thiyl radical; Antioxidant; Estrogen; Vitamin E (Venters Jr., H.D. (764) 93)

Brain injury; Brain ischemia; Cortical neuron; Equilin; Estradiol; Glutamate; Lipid peroxidation (Regan, R.F. (764) 133)

Hypoxia; Ischemia; Adenosine; Hippocampus (Fowler, J.C. (766) 255)

Blood-brain barrier; Blood-nerve barrier; Catalase; Superoxide dismutase; Polyamine; Putrescine (Wengenack, T.M. (767) 128)

Alzheimer's disease; Calcium; Ion current; Oxidative stress; Vascular amyloid (Mattson, M.P. (771) 147)

Brain damage; Hypoxic ischemia; Lipid peroxidation; Malondialdehyde; Perinatal; Rat; Semidehydroascorbate radical (Bågenholm, R. (773) 132)

Mitochondria; Complex I inhibitor; Apoptosis; Parkinson's disease (Seaton, T.A. (777) 110)

Freshly isolated cell
Hypertonia; Osmotic effect; Cell volume; Perforated patch clamp; Whole-cell patch clamp; Ion channel; Voltage-gated current; Synaptic current; Excitatory postsynaptic current (Huang, R. (748) 157)

Frog
Blood–nerve barrier; Perineurium; Inflammation; Inflammatory mediator; Bile salt; Protamine; Amphibian (Todd, B.A. (776) 214)

Frog *Rana tigrina*
Calcitonin; Brain; Subcommissural organ; Reissner's fiber; Immunocytochemistry; Catfish *Clarias batrachus*; Lizard *Caloter versicolor* (Subhedar, N. (751) 13)

Frog retina
Carnosine; Glutamate; Immunocytochemistry; Electron microscopy; Zinc; Neurotransmission (Panzanelli, P. (758) 143)

Frontal cortex
Thymus; CD4 and CD8 T-cells; Prolactin; Substantia nigra ventral tegmental area (Gaufo, G.O. (756) 191)

Worker-parasite; Dominance-subordination; Monoamine oxidase (Dhingra, N.K. (758) 237)

Medial prefrontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; Learning; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Reversal; Conditioned emotional response; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

Epilepsy; Transfer; Kindling; Amygdala; Perirhinal cortex (Buchanan, J.-A.M. (771) 71)

Acetylcholine; Serotonin; *p*-Chloroamphetamine; 5-HT_4 receptor; Rat (Yamaguchi, T. (772) 95)

Frontal lobe
Dopamine; Striatum; Substantia nigra; Nociception; Central pain; Deafferentation pain; Parkinson's disease (Saadé, N.E. (751) 1)

Saccade; Antisaccade; Voluntary saccade; Express saccade; Fixation; Attention (Fischer, B. (754) 285)

Frontoparietal cortex
Glutamate reuptake; Microdialysis; Rat; Phenylephrine; Awake (Alexander, G.M. (766) 1)

Functional brain imaging
Hippocampus; Human; Medial temporal lobe; MEG magnetoencephalographic source mapping; Spontaneous activity; Theta; SSP signal-space projection (Tesche, C.D. (749) 53)

Functional imaging
Human cerebellum; Evoked response; Median nerve; Magnetoencephalography; Neuromagnetism (Tesche, C.D. (744) 23)

Fura-2
Cytosolic calcium; Calcium ion channel antagonist; Protonophore; Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone; Calcium ion removal (Sato, M. (768) 37)

Alcohol; Purkinje neuron; Intracellular calcium; Glutamate receptor; Metabotropic glutamate receptor; Ionotropic glutamate receptor (Gruol, D.L. (773) 82)

Fura-2-release assay
Culture; Glutamate neurotoxicity; Neuron; Platelet-activating factor (PAF) (Nogami, K. (754) 72)

Furosemide
Mannitol; Kainic acid; Osmolality; Seizure; Diuretics (Stringer, J.L. (745) 328)

$GABA_A$ receptor; Glycine receptor; Cultured septal neuron; Patch-clamp (Kumamoto, E. (776) 246)

F wave
Transcranial magnetic brain stimulation; Simple reaction time; Silent period; Motor cortex; Supplementary motor area; Spinal motoneuron excitability; Human (Ziemann, U. (744) 32)

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GABA
Thalamus; Lateralis medialis-suprageniculate nuclear complex; Pedunculopontine tegmental nucleus; Choline acetyltransferase; Glutamate; Cat (Hoshino, K. (747) 151)

Glutamate; Hypothalamus; Lordosis; Ventromedial nucleus (Luine, V.N. (747) 165)

Ventral pallidum; Substantia innominata; Dopamine; Anterograde tracing; *Phaseolus vulgaris*-leucoagglutinin (Gaykema, R.P.A. (747) 173)

Colchicine; Learning; Memory; Glutamate; $GABA_B$ receptor; $GABA_B$ receptor antagonist; Alzheimer's disease (Yu, Z.F. (750) 53)

Avian brain; Limbic striatum; Electron microscopy; Glutamate; Synapse (Csillag, A. (750) 171)

Interneuron; VIP; Calretinin; Calbindin D28k; Co-localization (Kubota, Y. (752) 175)

Choline acetyltransferase; Parvalbumin; Septum; Diagonal band of Broca; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (753) 141)

Cortical wedge; DBA/2 mouse; Glutamate (Hu, R.Q. (753) 260)

Opioid; Dorsal raphe; Periaqueductal gray; Serotonergic; Interneuron; Intracellular, brain slice (Jolas, T. (755) 229)

Circadian; Suprachiasmatic nucleus; Vasoactive intestinal peptide; Peptide histidine isoleucine; Gastrin-releasing peptide; Hamster (Gillespie, C.F. (759) 181)

GAD67; GAD65; Parvalbumin; Hippocampus; Mouse (Fukuda, T. (764) 237)

Locomotion; Anterior dorsal tegmentum; Midbrain; Reticular formation; Hypothalamus (Sinnamon, H.M. (766) 271)

Mechanical distortion; Kaolin-induced hydrocephalus; Basal ganglia; Acetylcholine; Dopamine; Immunohistochemistry (Tashiro, Y. (770) 45)

Medial preoptic nucleus; Whole-cell patch-clamp; Ion current; Glycine; Ligand-gated ion channel (Karlsson, U. (770) 256)

Penicillin; Diazepam; Absence seizure; Hypothermia; Thalamus (Ostojić, Z.S. (777) 86)

$GABA_A$
Neuropeptide Y; γ-Aminobutyric acid; Tetrodotoxin; Suprachiasmatic nucleus; Circadian rhythm (Huhman, K.L. (772) 176)

Subiculum; Intracellular recording; Bursting cell; Regular firing cell; $GABA_B$; NMDA; AMPA; 5-HT (Behr, J. (773) 217)

$GABA_B$
Subiculum; Intracellular recording; Bursting cell; Regular firing cell; $GABA_A$; NMDA; AMPA; 5-HT (Behr, J. (773) 217)

GABA antagonist, type B
Sleep; Waking; Intermediate stage; Theta rhythm; Spindle; Rat (Gauthier, P. (773) 8)

$GABA_A$/benzodiazepine receptor
Pentobarbital sleep; Noradrenergic system; Flumazenil; FG7142; Mouse (Matsumoto, K. (754) 325)

$GABA_A$/benzodiazepine receptor complex
Social isolation stress; Pentobarbital sleep; GABA-stimulated $^{36}Cl^-$ uptake (Ojima, K. (745) 127)

Social isolation stress; Ethanol; Pentobarbital; Chloral hydrate; CRF system (Matsumoto, K. (753) 318)

GABAergic
In vitro; Theta; Cholinergic (Konopacki, J. (775) 91)

GABAergic inhibition
Epileptogenesis; Seizure; El mouse; Dentate gyrus; Hippocampus; Disinhibition; Growth (Ono, T. (745) 165)

GABAergic inhibitory postsynaptic current
Vasoactive intestinal polypeptide; Cultured hippocampal neuron; cAMP; Forskolin; Whole-cell patch-clamp recording (Wang, H.-L. (746) 294)

GABAergic mechanism
Naphthalenic compound; Melatonin agonist; Central-type benzodiazepine receptor; Flumazenil; Bicuculline; Intrastriatal injection (Tenn, C.C. (756) 293)

GABAergic neuron
Melatonin; Retina culture; Ischaemia; Kainate; 5-HT-accumulating neuron (Cazevieille, C. (755) 91)

GABA receptor
Superior cervical ganglion; γ-Aminobutyric acid (GABA); Picrotoxin; Inhibition; Synaptic plasticity; Long-term potentiation (González Burgos, G.R. (751) 148)

Cytoplasmic calcium ($[Ca^{2+}]_i$); Synaptic transmission; Calcium ion channel; Potassium ion channel; Oscillation; Glutamate receptor; Neuronal network (Wang, X.-s. (767) 239)

$GABA_A$ receptor
Proopiomelanocortin; Diazepam-binding inhibitor; Pregnenolonesulfate; Octadecaneuropeptide; Trilostane; Pars intermedia (Garcia de Yebenes, E. (750) 277)

Neurosteroid; Anxiety; Mirrored chamber; Progesterone; Motor activity (Reddy, D.S. (752) 61)

Central-type benzodiazepine receptor; Peripheral-type benzodiazepine receptor; Pregnancy; Lactation; Progesterone; Prolactin (Weizman, R. (752) 307)

Mesencephalic trigeminal neuron; γ-Aminobutyric acid (GABA); In situ hybridization; Sensory neuron; GABA uptake (Hayar, A. (753) 120)

Enkephalin; Dynorphin-A; DPDPE; DAMGO; Opioid receptor; DRG neuron (Xi, Z.-X. (758) 163)

γ-Aminobutyric acid (GABA); OFF pathway; Amacrine cell; Bipolar cell; Retina; Neurotransmitter; Carp (Zhang, D.-Q. (759) 160)

NMDA receptor; Pseudorabies virus; Immunofluorescence; Confocal laser microscopy; Dorsal motor nucleus of the vagas nerve; Rat (Broussard, D.L. (763) 123)

γ2 subunit; Antisense oligodeoxynucleotide; Diazepam; Rat hippocampus; Radioligand binding (Karle, J. (765) 21)

Alphaxalone; Alprazolam; Anxiolytic; Flumazenil; Muscimol; Neuroactive steroid; Staircase test (Pick, C.G. (765) 129)

Neurosteroid; Benzodiazepine; Medulla; 3α-Hydroxy-5α-pregnan-20-one; Allopregnanolone; Female; Rat (Garrett, K.M. (768) 301)

Glycine receptor; Bicuculline; Strychnine; Protein kinase A; Protein kinase C; G protein; Calcium (Tapia, J.C. (769) 203)

Non-NMDA receptor; NMDA receptor; Intracellular recording; Diagonal band of broca; Lateral preoptic area; Lateral hypothalamus (Yang, Q.Z. (773) 162)

Clathrin-coated vesicle; Benzodiazepine receptor (Tehrani, M.H.J. (776) 195)

Furosemide; Glycine receptor; Cultured septal neuron; Patch-clamp (Kumamoto, E. (776) 246)

$GABA_B$ receptor
Colchicine; Learning; Memory; Glutamate; GABA; $GABA_B$ receptor antagonist; Alzheimer's disease (Yu, Z.F. (750) 53)

$GABA_B$ receptor antagonist
Colchicine; Learning; Memory; Glutamate; GABA; $GABA_B$ receptor; Alzheimer's disease (Yu, Z.F. (750) 53)

CGP36742; Morris water maze task; Baclofen; Scopolamine; Motor incoordination (Nakagawa, Y. (766) 101)

$GABA_A$ receptor complex
Ethanol; Neurosteroid; Picrotoxin; Drug discrimination; Rat (Bienkowski, P. (753) 348)

GABA-stimulated $^{36}Cl^-$ uptake
Social isolation stress; Pentobarbital sleep; $GABA_A$/benzodiazepine receptor complex (Ojima, K. (745) 127)

GABA transmission
Neurosteroid; Amphibian embryo; Spinal cord (Reith, C.A. (770) 202)

GABA turnover
Gonadal steroid; Hypothalamus; Ventromedial nucleus; Medial preoptic nucleus; Sexually dimorphic nucleus; Rat (Grattan, D.R. (775) 244)

GABA uptake
Mesencephalic trigeminal neuron; γ-Aminobutyric acid (GABA); $GABA_A$ receptor; In situ hybridization; Sensory neuron (Hayar, A. (753) 120)

GAD65
GAD67; GABA; Parvalbumin; Hippocampus; Mouse (Fukuda, T. (764) 237)

GAD67
GAD65; GABA; Parvalbumin; Hippocampus; Mouse (Fukuda, T. (764) 237)

Galactose 1-phosphatase
Inositol monophosphatase; Lithium; Inositol; Mood-stabilizing drug (Parthasarathy, R. (778) 99)

β-Galactosidase
Small intestine; Tract-tracer; Autonomic anatomy; Sympathetic topography (Mabon, P.J. (753) 245)

Adenovirus; Gene transfer; Spinal cord; Immune response; Cyclosporin A; Clarke's nucleus; Red nucleus (Liu, Y. (768) 19)

Galanin
Analgesia; Capsaicin; C-fiber; Galanin message associated peptide; Pain; Resiniferatoxin (Xu, X.-J. (752) 52)

Autoradiography; Immunocytochemistry; Median eminence; Electron microscopy; Nerve ending; Tanycyte; Guinea pig (Dutriez, I. (753) 36)

Acetylcholine; Cerebral cortex; Release; Mastoparan (Consolo, S. (756) 174)

Activin; Nucleus tractus solitarius; Catecholamine; c-Fos; Immunocytochemistry; Rat (Matta, S.G. (759) 259)

Chronic constriction injury; Dorsal horn; Antibody microprobe; Spontaneous release (Colvin, L.A. (766) 259)

Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Sympathetic neuron; Superior cervical ganglion; Axotomy; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Neuropeptide Y; Insulin; Hypothalamus; Arcuate nucleus; Paraventricular nucleus (Wang, J. (777) 231)

Galanin message associated peptide
Analgesia; Capsaicin; C-fiber; Galanin; Pain; Resiniferatoxin (Xu, X.-J. (752) 52)

γ-aminobutyric $acid_A$ receptor
Fear-potentiated startle; Ventral tegmental area; Quinpirole; Muscimol; Dopamine neuron; Aversive emotional arousal (Munro, L.J. (746) 231)

Gamma-aminobutyric acid
Electron microscopy; Caudate nucleus/putamen; Nucleus accumbens shell; Immunocytochemistry; Ultrastructure; Dopamine D_2 receptor (Delle Donne, K.T. (746) 239)

Dopamine β-hydroxylase; Bulbospinal axon; Coexistence; Immunofluorescence; Confocal microscopy (Patel, R. (749) 164)

Gamma oscillation
Barrel cortex; EEG; Rat (Jones, M.S. (768) 167)

Ganglionectomy
Pineal gland; Superior cervical ganglion; Deep pineal; Lamina intercalaris; Intergeniculate leaflet (Bartol, I. (744) 77)

Ganglioside
Excitotoxicity; Growth factor; Retinal neuron; Excitatory amino acid (Heidinger, V. (767) 279)

Developmental brain; Phenoxyherbicide; 2,4-Dichlorophenoxyacetic acid (2,4-D); Neurotoxicity (Rosso, S.B. (769) 163)

Ganglioside composition
Human cranial nerve; GQ1b; Miller Fisher syndrome; Guillain-Barré syndrome; Ophthalmoplegia (Chiba, A. (745) 32)

GAP-43
Axonal regeneration; Axotomy; Injury; CNS; Cortical neuron (Elliott, E.J. (755) 221)

Mouse; Transgenic; Plasticity; Spatial learning; Synaptophysin; Morris water maze; Entorhinal cortex lesion (Hardman, R. (758) 187)

Gap junction
Retina; Connexin; Electrical synapse; Immunoblot; Immunohistochemistry; Cx43; Müller cell (Giblin, L.J. (755) 146)

Gastric distension
Visceral afferent; Esophagus; Stomach; Nodose ganglion; DiI in vivo tracing; c-Fos expression; Solitary nucleus (Berthoud, H.-R. (746) 195)

Gastric emptying
Enterostatin; Vagus; Intracerebroventricular injection; High-fat diet; Non-nutrient liquid meal (Lin, L. (745) 205)

Gastrin-releasing peptide
Bombesin; Neuromedin C; Suprachiasmatic; Periventricular; Whole-cell; Potassium conductance; Non-specific conductance (Reynolds, T. (750) 67)

Circadian; Suprachiasmatic nucleus; GABA; Vasoactive intestinal peptide; Peptide histidine isoleucine; Hamster (Gillespie, C.F. (759) 181)

Gastrointestinal
Immediate early gene; Learning; Memory; Gene expression; Axotomy (Houpt, T.A. (747) 85)

Gastropod
Calcium binding protein; Nervous system; Eye; Bag cell; Mollusc; Immunocytochemistry (Kerschbaum, H.H. (746) 133)

Gating
Lanthanum; Potassium current; Ion channel; *Xenopus*; Oocyte; Voltage-clamp (Tytgat, J. (749) 232)

GDNF
Ischemia; Rat; Middle cerebral artery (Abe, K. (776) 230)

GDP-β-S
G-protein; *N*-ethylmaleimide; Protein kinase A; High voltage-activated calcium channel; Pertussis toxin; Neuroprotective drug; Riluzole (Huang, C.-S. (762) 235)

Gel filtration
Nerve growth factor; Rat brain; Enzyme-linked immunosorbent assay; High molecular weight molecule; Association; Sedimentation (Hoener, M.C. (772) 1)

Gender
Pregnancy; Estrogen; Progesterone; Spinal cord; Opioid analgesia (Dawson-Basoa, M. (757) 37)

Serotonin 1A receptor; [^{3}H]8-OH-DPAT; Human brain postmortem; Neocortex; Hippocampus; Aging (Palego, L. (758) 26)

Gender difference
Interleukin-1; Lipopolysaccharide; Sickness behavior; Sexual behavior; Partner preference; Open field test; Rat (Avitsur, R. (773) 149)

Gene deletion
μ-Knockout; Transgenic mouse; *MOR* gene; Opioid receptor; Receptor, μ-, δ-, κ_1- and κ-; Autoradiography; Opioid receptor mapping (Kitchen, I. (778) 73)

Gene expression
Gastrointestinal; Immediate early gene; Learning; Memory; Axotomy (Houpt, T.A. (747) 85)

Learning; Plasticity; Stress; Immunohistochemistry; Hearing deficit; Novel sound stimulation (Hillman, D.E. (748) 77)

Somatostatin; Brain-derived neurotrophic factor; Primate; Central nervous system; Aging (Hayashi, M. (749) 283)

Glutamate receptor; Human brain; Hybridization, in situ; Kainic acid receptor; Messenger RNA; Schizophrenia (Porter, R.H.P. (751) 217)

Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

POU transcription factor; Brn-2; Developing neocortex; Postmitotic cell; NCAM-H (Hagino-Yamagishi, K. (752) 261)

Single-channel current; Mutagenesis; Patch clamp; Retina (Lu, L. (756) 1)

Neuroglia; Astrocyte; Aging; Glial fibrillary acidic protein; Sciatic axotomy (Kane, C.J.M. (759) 163)

Neurodegenerative disease; Hybridization, in situ; Pyramidal neuron; Hippocampus; Temporal cortex; Neuroinflammatory (Shen, Y. (769) 391)

Vasoactive intestinal polypeptide; Muscarinic receptor; Neuroblastoma cell; mRNA; Peptide processing (Kristensen, B. (775) 99)

Serotonin transporter; Raphe nuclei; In situ hybridization; [^{125}I]RTI-55 binding; Mice (Bengel, D. (778) 338)

Generalized gamma model
Shaker K^+ channel; Single channel gating kinetics; Survival analysis; Shaker S4 region; Multiple regression analysis (Shao, X.M. (770) 96)

Gene sequence
Prion; Prion disease; Prion protein; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Gene targeting
Swimming navigation; Amyloid precursor protein; Mouse; Genetic strain (Wolfer, D.P. (771) 1)

Gene therapy
Adeno-associated virus; Inferior colliculus; Seizure; γ-Aminobutyric acid (GABA); Antisense (Xiao, X. (756) 76)

Genetically epilepsy-prone rats
Inferior colliculus; Audiogenic seizures; Seizures; Neuronal network (Chakravarty, D.N. (761) 263)

Immunocytochemistry; Seizure; Epilepsy; Glutamate receptor (Gaza, W.C. (774) 175)

Genetic association
α_1-Antichymotrypsin polymorphism; ApoE genotype; Parkinson's disease; Alzheimer's disease; Dementia (Yamamoto, M. (759) 153)

Genetic background
129 substrain; B6; Behavior; Embryonic stem cell; Null-mutant mouse (Montkowski, A. (762) 12)

Genetic epilepsy
Meriones unguiculatus; Limbic seizure; Calcium-binding proteins; Disinhibition; Ammonshorn (Scotti, A.L. (760) 109)

Genetics
Ethanol; c-Fos; Selected line; Locus coeruleus; Nucleus accumbens (Thiele, T.E. (756) 278)

Genetic strain
Swimming navigation; Amyloid precursor protein; Gene targeting; Mouse (Wolfer, D.P. (771) 1)

Gene transfer
Adenovirus vector; Ischemia; Interleukin-1 receptor antagonist; Stroke (Yang, G.-Y. (751) 181)

lacZ gene; Ischemia; Brain (Abe, K. (763) 191)

Adenovirus; β-Galactosidase; Spinal cord; Immune response; Cyclosporin A; Clarke's nucleus; Red nucleus (Liu, Y. (768) 19)

Genomic organization
Bombesin; Neuromedin B receptor; Bombesin receptor subtype 3; Tissue distribution (Ohki-Hamazaki, H. (762) 165)

GEPR-9s
Audiogenic seizure; Post-tonic clonus; Neuronal firing; Habituation; Medial geniculate body (N'Gouemo, P. (761) 217)

Gerbil
Ischemic tolerance; Energy metabolism; Pyruvate dehydrogenase (Katayama, Y. (746) 126)

Transient global ischemia; Ischemic tolerance; Intraischemic hypothermia; Delayed neuronal death (Wada, K. (746) 301)

Ischemia; Clomethiazole; Neuroprotection (Liang, S.-P. (751) 189)

Transient ischemia; Delayed neuronal death; CA1 (Antonawich, F.J. (764) 249)

Cerebral infarction; Disseminated selective neuronal necrosis; Repeated ischemia; Threshold; Maturation phenomenon (Hanyu, S. (767) 154)

Prostaglandin I_2 analog; Brain ischemia; Passive avoidance task; Delayed neuronal death; Synapse (Matsuda, S. (769) 321)

Global ischemia; Hippocampus; Neuroprotection; Zonisamide; Microdialysis; Glutamate; Behavior; Histology (Owen, A.J. (770) 115)

Calcium antagonist; PCA50938; Nimodipine; Flunarizine; Cerebral ischemia; Neuroprotection (Zapater, P. (772) 57)

Cerebellum; Substance P; Purkinje cell; Immunohistochemistry (Kang, T.-C. (778) 397)

GFAP
Astroglia; Microglia; Motoneuron; Sensory ganglion; Nerve injury; Spinal cord; OX-42 (Molander, C. (747) 122)

Brain injury; γ-Irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; S100β (Janeczko, K. (770) 237)

Ginkgo biloba
Choline; Hippocampal slice; Hypoxia; Bilobalide (Klein, J. (755) 347)

GIRK1
Inward rectifying K^+ channel; IRK1; Immunohistochemistry; Dendrite; Development (Miyashita, T. (750) 251)

GLAST
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Glia
Glutamate uptake; GLAST; Retina; Pigment epithelium; Müller cell; Astrocyte; Immunocytochemistry (Lehre, K.P. (744) 129)

Alzheimer's disease; Cell morphology; Chloride channel; Intracellular calcium; Metal; Patch-clamp; Potassium channel (Jalonen, T.O. (746) 85)

Macaca mulatta; Prefrontal cortex; β-Amyloid; Senile plaque; Apolipoprotein E; Immunofluorescence; Carbocyanine double labelling (Härtig, W. (751) 315)

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Myelination; Neurotrophic factor; Signal transduction (Oh, L.Y.S. (757) 236)

Immunocytochemistry; Glutamate; Optic terminal; Degeneration (Repérant, J. (761) 321)

RecA protein; Recombination; DNA repair; Neuron (Araneda, S. (762) 103)

Astrocyte; Patch-clamp; Neocortex; Volatile anaesthetic; Enflurane; Isoflurane; Halothane (Felisberti, F. (766) 56)

Astrocyte; Cerebellum; Cerebral cortex; Ependyma; Folic acid; Formate; Spinal cord; Tetrahydrofolate dehydrogenase (Neymeyer, V. (766) 195)

Calcitonin gene-related peptide; Neurotrophin; Axon growth (Kawaja, M.D. (774) 77)

Glial cell
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Somatostatin receptor; Desensitization; Proliferation; Immunostaining; Octreotide (Feindt, J. (746) 309)

Nitric oxide; Inducible nitric oxide synthase; Interferon regulatory factor-1; Nuclear transcription factor kappa B; Diethyldithiocarbamate (Fujimura, M. (759) 247)

Nitric oxide; Fluorocitrate; Cerebellum; In vivo microdialysis; Barrel rotation; Arginine; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

Glial cell line-derived neurotrophic factor
Parkinson's disease; Dopamine; Neurotrophic factor; Basal ganglia; Alzheimer's disease; Cholinergic function (Lapchak, P.A. (747) 92)

Corticospinal motor neuron; Ciliary neurotrophic factor; Neurotrophins; Cell survival; Cell culture (Junger, H. (762) 56)

Glial fibrillary acidic protein
Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Synaptophysin (Li, G. (751) 265)

Neurotoxicity; Autoradiography; Fatty acid; Palmitic acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Seizure (Appel, N.M. (754) 55)

Neuroglia; Astrocyte; Aging; Gene expression; Sciatic axotomy (Kane, C.J.M. (759) 163)

Astrocyte; Fibroblast growth factor-2 (FGF-2); Trauma (Reilly, J.F. (759) 277)

Astrocyte cell line; Temperature-sensitive mutant of simian virus 40; tsA640 (Kitamura, Y. (759) 295)

Neurofilament, 68 kDa; Heat-shock protein; c-*fos*; Acid fuchsin; Axonal injury; Cell death; Astroglia; Head trauma (Dunn-Meynell, A.A. (761) 25)

Vimentin; Protein phosphorylation; Kainic acid; Neurotoxicity; Excitatory amino acid; Gliosis; Astrocyte (Lenz, G. (764) 188)

Astrocyte; Brain; Ischemia; Microglia; 5′-Nucleotidase; OX42 (Braun, N. (766) 213)

Glial-neuronal exchange
Pyruvate metabolism; Malate-aspartate shuttle (McDougal Jr., D.B. (755) 304)

Glial–neuronal shuttle
Lactate; Hypoxia; Synaptic function; Fluorocitrate; Hippocampal slice (Schurr, A. (774) 221)

Gliastatin 2
Bromodeoxyuridine; C6 glioma cell; Calcein-am; Dystrophic retina; Ethidium homodimer; Lactate dehydrogenase; Microglial cell; Müller cell; Retinal glia (Rosales, A.A. (748) 195)

Glibenclamide
Adenosine triphosphate (ATP)-sensitive potassium channel; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Dopamine; Norepinephrine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Substantia nigra pars reticulata; ATP-sensitive potassium channel; Diazoxide; Rat (Ye, G.L. (753) 1)

Antinociception; Carbachol; Atropine; Naloxone; Tail-flick latency; Rat (Kang, Y.-m. (761) 342)

ATP-sensitive K^+ channel; Ventromedial hypothalamic nucleus; Phosphorylation; AMPPNP; Metabolism; Glucose (Routh, V.H. (778) 107)

Glioma
Heat shock; Ethanol; Intracellular pH; Sodium; Potassium; Monensin; Membrane potential; Lactate (Skrandies, S. (746) 220)

Sialyltransferase; Brain tumor; Glycoprotein; Sialic acid (Yamamoto, H. (755) 175)

Cytochrome *P*-450; Brain; Microsome; *CYP1A1*; *CYP2D*; ELISA (Geng, J. (774) 11)

Gliosis
Neurotoxicity; Autoradiography; Fatty acid; Palmitic acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

Glial fibrillary acidic protein; Vimentin; Protein phosphorylation; Kainic acid; Neurotoxicity; Excitatory amino acid; Astrocyte (Lenz, G. (764) 188)

Astrocytosis; Blood–brain barrier; Macrophage; Microglia (Penkowa, M. (774) 256)

Global brain ischemia
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Global ischemia
Excitotoxicity; Excitatory amino acid; Ischemia; Heat shock protein; 6-Nitro-7-sulphamoylbenzo(f)quinoxaline-2-3-dione (NBQX) (Kawaguchi, K. (746) 59)

Cathepsin B; Lysosome; Delayed neuronal death; Decapitation; Cell death (Hill, I.E. (751) 206)

Flupirtine; Spatial learning; Rat (Block, F. (754) 279)

Apparent diffusion coefficient of brain water (ADCw); Hyperglycemia; MRI; Diffusion imaging; Stroke (Huang, N.C. (757) 139)

Gerbil; Hippocampus; Neuroprotection; Zonisamide; Microdialysis; Glutamate; Behavior; Histology (Owen, A.J. (770) 115)

NF-kB; *bcl-x*; *bcl-x* gene promoter; Programmed cell death (Dixon, E.P. (776) 222)

Glossopharyngeal
Taste; Bitter; Alkaloid; Chorda tympani; Multi-Dimensional Scaling (Dahl, M. (756) 22)

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Insular cortex; Chorda tympani; Superior laryngeal nerve; Convergence; Rat (Hanamori, T. (763) 267)

Glucagon
Adrenal gland; Autonomic nervous system; Glucose metabolism; Insulin; Pancreas (Jansen, A.S.P. (766) 29)

Glucagon-like peptide-1 (GLP-1)
Central; Feeding behavior; Chicken; Mammal (Furuse, M. (755) 167)

Neuropeptide Y (NPY); Central; Feeding behavior; Chicken (Furuse, M. (764) 289)

Glucocorticoid
Adrenalectomy; Corticosteroid; Immunohistochemistry; Western blot (Okuhara, D.Y. (745) 144)

Lipocortin; Annexin; Astrocytoma cell; Induction; Secretion (Mizuno, H. (746) 265)

Aging; Alzheimer's disease; Calcium; Cognition; Memory; Morphometry; Stress (Dachir, S. (748) 175)

Adrenal medulla; Chromaffin cell; PC12 cell; FGF-2 isoform; Postnatal development; Rat (Meisinger, C. (757) 291)

G-protein; Signal transduction; Dexamethasone; Nerve growth factor (Li, X. (759) 213)

Dexamethasone; Fos; Hypothalamus; Immunocytochemistry; Jun; Preoptic area (Briski, K.P. (768) 185)

Learning; Memory; Corticosterone; Metyrapone; Aminoglutethimide; Passive avoidance; Chick (Loscertales, M. (769) 357)

Glucocorticoid receptor
Adrenalectomy; Granule cell death; Nissl and silver staining; Immunohistochemistry; Rat (Hu, Z. (778) 293)

Glucoprivic intake
Food deprivation; Palatability; Ventral tegmental area; μ Opioid receptor; κ Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (767) 8)

Glucose
Lactate; Cerebral energy metabolism; Glycolysis; 2-Deoxy-D-glucose; Hypoxia; Hippocampal slice (Schurr, A. (744) 105)

Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Dopamine; Norepinephrine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Muscimol; γ-Aminobutyric acid (GABA); Medial septum; Inhibitory avoidance; Memory (Parent, M.B. (745) 317)

Cortical spreading depression; Coupling; Cytochrome *aa*3; Hemoglobin; Hypercapnia; Laser Doppler; Near-infrared spectroscopy; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Nuclear magnetic resonance; Brain; Compartmentation; ^{13}C; Neuron; Astrocyte; Tricarboxylic acid cycle (TCA) cycle (Aureli, T. (765) 218)

Obesity; Sulfonylurea; ATP sensitive K^+ channel; Diet induced obesity; Diabetes (Levin, B.E. (776) 146)

ATP-sensitive K^+ channel; Ventromedial hypothalamic nucleus; Phosphorylation; Glibenclamide; AMPPNP; Metabolism (Routh, V.H. (778) 107)

Glucose deprivation
Ischemia; Neural activity; Calcium ion; Hippocampus; Developing brain (Nabetani, M. (769) 158)

Kunitz-type protease inhibitor domain; Amyloid mRNA; RT-PCR (Shi, J. (772) 247)

Glucose metabolism
Adrenal gland; Autonomic nervous system; Glucagon; Insulin; Pancreas (Jansen, A.S.P. (766) 29)

Cannabinoid; cAMP; C6 glioma cell (Sánchez, C. (767) 64)

Glucose-6-phosphate dehydrogenase
Antioxidant enzymes; Rat; Olfactory bulb; Periglomerular cell (Ninfali, P. (744) 138)

Glucose transport
Aging; Thyroid hormone; GLUT-1 (Mooradian, A.D. (747) 144)

Poly (A) tail; Blood–brain barrier; Diabetes (Shah, G.N. (754) 213)

Glucose transport protein
Blood-to-brain transport; Microvascular endothelium; GLUT1; GLUT4 (McCall, A.L. (744) 318)

Glucose uptake
Alzheimer's disease; Astrocyte; β-Amyloid; Glutamate uptake (Parpura-Gill, A. (754) 65)

Glucose utilization
β-Amyloid; Estradiol; Lipid peroxidation; Lactate production; SK-N-SH neuroblastoma cell (Gridley, K.E. (778) 158)

GluR1
Zinc; AMPA receptor; GluR2; GluR3; *Xenopus* oocyte (Dreixler, J.C. (752) 170)

GluR2
Zinc; AMPA receptor; GluR1; GluR3; *Xenopus* oocyte (Dreixler, J.C. (752) 170)

GluR3
Zinc; AMPA receptor; GluR1; GluR2; *Xenopus* oocyte (Dreixler, J.C. (752) 170)

GLUT1
Blood-to-brain transport; Microvascular endothelium; Glucose transport protein; GLUT4 (McCall, A.L. (744) 318)

Aging; Glucose transport; Thyroid hormone (Mooradian, A.D. (747) 144)

GLUT4
Blood-to-brain transport; Microvascular endothelium; Glucose transport protein; GLUT1 (McCall, A.L. (744) 318)

Glutamate
Prazosin; Idazoxan; GnRH; Locus coeruleus (Urbanski, H.F. (744) 96)

Dystonia; Phencyclidine; Excitatory amino acid (Nobrega, J.N. (744) 161)

Zinc oxide; Glycine; *N*-Methyl-D-aspartate; Receptor; CGP-39653 (Terse, P.S. (744) 347)

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Movement disorder; Sigma receptor (Richter, A. (745) 336)

Cardiovascular; Neurotransmission; Nitric oxide; Nitrosothiols; Signal transduction (Ohta, H. (746) 98)

N-Methyl-D-aspartate; Glycine; Excitotoxicity; Ischemia; Microdialysis; Extracellular field (DC) potential (Obrenovitch, T.P. (746) 190)

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GABA; Hypothalamus; Lordosis; Ventromedial nucleus (Luine, V.N. (747) 165)

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N-Methyl-D-aspartate; Sulfhydryl; Rat cerebral cortex; Tissue culture; Neurotoxicity (Sinor, J.D. (747) 297)

Pituitary adenylate cyclase activating polypeptide; Intermediolateral cell column; Substance P; Vasoactive intestinal polypeptide; Sympathetic preganglionic neuron (Lai, C.C. (748) 189)

Cerebral ischemia; Excitatory amino acid; Sodium channel (Kawaguchi, K. (749) 131)

Colchicine; Learning; Memory; GABA; $GABA_B$ receptor; $GABA_B$ receptor antagonist; Alzheimer's disease (Yu, Z.F. (750) 53)

Avian brain; Limbic striatum; Electron microscopy; GABA; Synapse (Csillag, A. (750) 171)

Fear; Conditioning; Calcium; Hippocampus; Thalamus; Diacylgylcerol (DAG) (Shors, T.J. (750) 293)

Excitotoxicity; Cyanide; K_{ATP} channels; Neuroprotection; Tolbutamide (Wind, T. (751) 295)

In vitro ischemia; Brain slice; Na^+/K^+ ATP_{ase}; Na^+/glutamate transporter; Postischemic glutamate release potentiation (Calò, G. (751) 300)

Butorphanol; Aspartate; Locus coeruleus; Morphine; Microdialysis; Nor-binaltorphimine; U-69,593 (Hoshi, K. (753) 63)

Entopeduncular nucleus; Aspartate; Microdialysis; Reserpine; 6-Hydroxydopamine (Biggs, C.S. (753) 163)

GABA; Cortical wedge; DBA/2 mouse (Hu, R.Q. (753) 260)

Evans blue dye; Epilepsy; Non-NMDA receptor; Limbic seizure; Microdialysis; Rat (Dürmüller, N. (753) 283)

γ-Aminobutyric acid (GABA); Glycine; Somatosensation; Ventrobasal thalamus; Interneuron (Popratiloff, A. (754) 333)

Ischaemia; Organotypic slice culture; Hippocampus; Hypoxia (Pringle, A.K. (755) 36)

BDNF; Cerebral cortex; NMDA; NO; Neurotoxicity (Kume, T. (756) 200)

N-Methyl-D-aspartate; Glycine; MK-801; Spinal cord; Cerebral cortex (Liu, Y. (757) 167)

Amphetamine; Dopamine; γ-Aminobutyric acid; Calcium-channel blockers; Protein-synthesis inhibitor; Cortex; Behavioral sensitization (Karler, R. (757) 228)

Muscarinic; Acetylcholine; γ-Aminobutyric acid (GABA); Inhibitory postsynaptic potentials (IPSPs); Neocortex; Disinhibition (Aramakis, V.B. (758) 107)

Carnosine; Frog retina; Immunocytochemistry; Electron microscopy; Zinc; Neurotransmission (Panzanelli, P. (758) 143)

Closed head injury; Hypoxia; Vulnerability; Hippocampus; γ-Aminobutyric acid; Microdialysis (Katoh, H. (758) 153)

Circadian; SCN; NMDA; Phase shift; Hamster (Mintz, E.M. (758) 245)

Dopamine; Striatum; Substantia nigra; MPTP; Neurodegeneration; Excitotoxicity; Drug screening (Kanthasamy, A.G. (759) 1)

Methamphetamine; Indusium griseum; Hippocampal remnant; Seizure; Neurodegeneration; Fluoro-Jade; Catecholamine (Schmued, L.C. (759) 135)

Behavioral recovery; Conditioning taste aversion; Free moving microdialysis; Neural transplantation; Gustatory cortex (Miranda, M.I. (759) 141)

Medial preoptic nucleus; Whole-cell patch-clamp; Ion current; NMDA; AMPA (Karlsson, U. (759) 270)

Mouse; Electron microscopy; Immunocytochemistry; γ-Aminobutyric acid (GABA); Hippocampus; Convulsion (Buckman, J.F. (760) 193)

Amphetamine; Quinpirole; SKF-82958; Nucleus accumbens; Microdialysis (Kalivas, P.W. (761) 173)

Immunocytochemistry; Optic terminal; Degeneration; Glia (Repérant, J. (761) 321)

Medulla; Nucleus tractus solitarius; Rat; Vagal sensory afferent (Sykes, R.M. (762) 1)

Glycine; Rod; Horizontal cell; Calcium current; Xenopus (Akopian, A. (762) 121)

Microdialysis, in vivo; Medial vestibular nucleus; Electrical stimulation; Neurotransmitter; Vestibular nerve (Yamanaka, T. (762) 243)

Partial agonist; Schizophrenia; Antipsychotic; Neuroleptic; Tardive dyskinesia; *N*-Methyl-D-aspartate (Lidsky, T.I. (764) 46)

Opioid; Endogenous analgesia; Ultrastructure; Unmyelinated axon (Coggeshall, R.E. (764) 126)

Brain injury; Brain ischemia; Cortical neuron; Equilin; Estradiol; Free radical; Lipid peroxidation (Regan, R.F. (764) 133)

Animal model; Blood pressure; γ-Aminobutyric acid (GABA); Heart rate; *N*-Methyl-D-aspartate (NMDA); Non-NMDA; Panic; Stress (Sajdyk, T.J. (764) 262)

Acetylcholine; Long-term potentiation; Memory (Robinson, J.K. (765) 51)

α7 neuronal receptor; Cerebral cortex; Neuronal CNS receptor; Neuroprotection; Nicotine; *N*-Methyl-D-aspartate; Primary culture (Kaneko, S. (765) 135)

Oxidative stress; Glutathione; Cell death; Cystine; Mouse trisomy 16; Down syndrome; Alzheimer's disease (Stabel-Burow, J. (765) 313)

Superior salivatory nucleus; Pterygopalatine ganglion; γ-Aminobutyric acid; Glycine receptor; Immunohistochemistry; Cholera toxin B subunit; Wheat germ agglutinin conjugated horseradish peroxidase (Kobayashi, M. (766) 72)

Cell swelling; C6 glioma; α-Trinositol; Lactacidosis (Staub, F. (766) 285)

2-Deoxyglucose; Cerebellar granule cell; Excitotoxicity (Minervini, M. (768) 57)

Brain microdialysis; Capillary zone electrophoresis; Feeding; Rat (Rada, P. (768) 338)

Proline; Synaptic plasticity; Hippocampus; Aspartate; Transmitter release; Paired pulse facilitation; Hyperprolinemia (Cohen, S.M. (769) 333)

5-Hydroxytryptamine; Perforant pathway; Excitatory amino acid; Postsynaptic inhibition; Temporoammonic projection (Grünschlag, C.R. (770) 10)

Global ischemia; Gerbil; Hippocampus; Neuroprotection; Zonisamide; Microdialysis; Behavior; Histology (Owen, A.J. (770) 115)

Parasympathetic/sympathetic interaction; Single unit activity; Medulla (McKitrick, D.J. (770) 213)

Amphetamine; Dopamine; Iontophoresis; Neostriatum; Nucleus accumbens (Kiyatkin, E.A. (771) 14)

Excitatory amino acid; DL-Threo-β-hydroxyaspartate; Glutamate transporter; 1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor; Spinal cord; Amyotrophic lateral sclerosis; Neurotoxicity (Hirata, A. (771) 37)

GnRH; Aging; Hypothalamus; Puberty (Flynn, K.M. (771) 142)

Culture; L-DOPA; Neuroprotection; Neurotoxicity; Release; Striatum (Maeda, T. (771) 159)

Alzheimer's disease; Huntington's disease; *N*-Acetylaspartylglutamate; Peptide; Microglia; Striatum; Cerebral cortex (Passani, L.A. (772) 9)

BCECF; Central chemoreceptor; Control of breathing; Dissociated cell culture; γ-Aminobutyric acid (GABA); Respiration (Sugama, S. (777) 95)

Cell injury; Astrocyte; Uptake; Transporter (Eng, D.L. (778) 215)

Immunohistochemistry; Visceral sensory neuron; Vagus nerve ganglion; Rat (Schaffar, N. (778) 302)

Ca^{2+} oscillation; Confocal laser microscopy; Neurotrophic factor; Neuronal plasticity (Sakai, N. (778) 318)

Glutamate binding
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Glutamate receptor channel δ2 subunit
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Astrocyte; Cell swelling; Glutamate release; Hypothermia; Lactic acid; Potassium ion release (Bender, A.S. (750) 59)

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Glutathione reductase
Aminotriazole; Astrocyte; Catalase; Glutathione; H_2O_2; Mercaptosuccinate; Pentose phosphate pathway (Dringen, R. (759) 67)

Glyceraldehyde-3-phosphate dehydrogenase
ADP-ribosylation; Kindling; Epilepsy; Hippocampus; Nitric oxide; Antiepileptic drug (Suzuki, K. (745) 109)

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N-Methyl-D-aspartate; Glutamate; Excitotoxicity; Ischemia; Microdialysis; Extracellular field (DC) potential (Obrenovitch, T.P. (746) 190)

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N-Methyl-D-aspartate; Glutamate; MK-801; Spinal cord; Cerebral cortex (Liu, Y. (757) 167)

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Glycine antagonist
N-Methyl-D-aspartate receptor; ACEA 1021; Neurotoxicity; Neuropathology; Retrosplenial cortex; Cingulate cortex (Hawkinson, J.E. (744) 227)

Glycine-immunoreactive neuron
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Glycine receptor
Neuromodulation; Pregnenolone sulfate; Cultured spinal neuron; Patch clamp; Competitive inhibition (Wu, F.-S. (750) 318)

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$GABA_A$ receptor; Bicuculline; Strychnine; Protein kinase A; Protein kinase C; G protein; Calcium (Tapia, J.C. (769) 203)

Furosemide; $GABA_A$ receptor; Cultured septal neuron; Patch-clamp (Kumamoto, E. (776) 246)

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Glycyl-L-glutamine
Opioid; Pro-opiomelanocortin; Cardiovascular regulation; Post-translational processing; Dipeptide (Unal, C.B. (747) 52)

GM1 ganglioside
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GnRH mRNA
GnRH; LHRH mRNA; Estrous cyclicity; Age-related; Hypothalamus; Digoxigenin; In situ hybridization (Rubin, B.S. (770) 267)

Goldfish
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Gonad
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Gonadectomy
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Gonadotrophin releasing hormone
Steroid hormone; Immediate–early gene protein; Estrogens; Hypothalamus; Ovulation (Le, W.-W. (778) 272)

Gonadotropin-releasing hormone
Intracellular calcium; GT1-1 cell; γ-Aminobutyric acid (Sun, W. (747) 70)

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Serotonin; Receptor coupling; Antidepressant; 5-HT uptake inhibitor; SSRI; 8-OH-DPAT binding; Hypothalamus (Li, Q. (769) 141)

G protein
5-Hydroxytryptamine$_{1A}$ receptor; Dorsal raphe neuron; Inwardly rectifying K^+ current; Nystatin perforated patch recording; Rat (Katayama, J. (745) 283)

Mu opioid receptor; Morphine; Locus coeruleus; LowK_m; GTPase; GTPγS; β-endorphin (Selley, D.E. (746) 10)

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Signal transduction; Dexamethasone; Glucocorticoid; Nerve growth factor (Li, X. (759) 213)

N-ethylmaleimide; GDP-β-S; Protein kinase A; High voltage-activated calcium channel; Pertussis toxin; Neuroprotective drug; Riluzole (Huang, C.-S. (762) 235)

Glycine receptor; $GABA_A$ receptor; Bicuculline; Strychnine; Protein kinase A; Protein kinase C; Calcium (Tapia, J.C. (769) 203)

Serotonin; SSRI; 5-HT_2; 5-HT_2 receptor; Antidepressant; Receptor coupling (Li, Q. (775) 225)

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G protein coupled receptor
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G-protein coupling
Cloned octopamine/tyramine receptor; *Drosophila melanogaster*; *Xenopus* oocyte expression; Calcium; Antisense oligonucleotide (Reale, V. (769) 309)

GQ1b
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Gracile nucleus
Dorsal rhizotomy; Brainstem; Sprouting; Deafferentation (Sengelaub, D.R. (769) 256)

Granule cell
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Grid mapping
Terminal field distribution pattern; Norepinephrine; Dopamine; Serotonin; Thalamus (Oke, A.F. (763) 69)

Ground squirrel
Opioid; Opioid receptor; Autoradiography; Hibernation; Septohippocampal complex (Cui, Y. (747) 189)

Group I afferent
Cutaneous afferent; β innervation (Kouchtir, N. (774) 159)

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Growth
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Alcohol; Cell cycle; Fetal alcohol syndrome; Kinetics; Neuroblastoma; Proliferation; Receptor (Luo, J. (770) 139)

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γ 2 subunit
$GABA_A$ receptor; Antisense oligodeoxynucleotide; Diazepam; Rat hippocampus; Radioligand binding (Karle, J. (765) 21)

GT1-1 cell
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GT1 cell
GnRH; Phorbol ester; Actinomycin D; DRB; Cycloheximide (Yeo, T.T. (752) 294)

GTPase
G-protein; Mu opioid receptor; Morphine; Locus coeruleus; LowK_m; GTPγS; β-endorphin (Selley, D.E. (746) 10)

GTPase activating protein
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GTP-cyclohydrolase-I
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GTPγS
G-protein; Mu opioid receptor; Morphine; Locus coeruleus; LowK_m; GTPase; β-endorphin (Selley, D.E. (746) 10)

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Guam
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Guanosine
Adenosine; Thymidine; Choroid plexus; Nitric oxide synthase; L-NAME (Redžić, Z.B. (767) 26)

Guanylyl cyclase
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Guillain-Barré syndrome
Human cranial nerve; Ganglioside composition; GQ1b; Miller Fisher syndrome; Ophthalmoplegia (Chiba, A. (745) 32)

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γ-Aminobutyric acid (GABA); *N*-Methyl-D-aspartate (NMDA) receptor; Serotonin; Serotonin 5-HT_{1A} receptor; Dentate gyrus; Release; High performance liquid chromatography (Matsuyama, S. (761) 105)

Nitric oxide; Sympathetic nervous system; Cat; Hamster; Mouse; Rabbit; Rat (Zanzinger, J. (764) 265)

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Gustatory cortex
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Gymnotiformes
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Dorsal thalamus; Preoptic area; Retrograde tracing; Anterograde tracing; Biocytin; Teleostei (Zupanc, G.K.H. (776) 117)

H

H7
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H89
Cocaine; Conditioned place preference; Protein kinase A; Protein kinase C; H7; Chelerythrine (Cervo, L. (775) 30)

pH_i
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U-50,488H
κ-Opioid receptor agonist; Analgesia; Hypothermia; Tolerance; NMDA receptor antagonist; LY235959; Competitive antagonism (Bhargava, H.N. (747) 246)

κ-Opioid receptor agonist; Tolerance; [^{3}H]MK-801 binding; Brain region; Spinal cord; Rat (Bhargava, H.N. (749) 347)

Ibogaine; Noribogaine; Morphine; DPDPE; Antinociception; Mouse (Bhargava, H.N. (752) 234)

Ibogaine; Antinociception; Tolerance; Morphine; DPDPE; Opioid receptor agonist; Mouse (Cao, Y.-J. (752) 250)

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de Olmos silver staining; Heat shock protein immunocytochemistry; Neurodegeneration; Neurotoxicity; NMDA antagonists; Phencyclidine; Retrosplenial granular cortex (Corso, T.D. (752) 1)

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Vestibular; Efferent; Nicotinic acetylcholine receptor; RT-PCR; Scarpa's ganglion; Crista; Macula (Anderson, A.D. (778) 409)

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Neutral endopeptidase 24.11 (EC 3.4.24.11); Aminopeptidase N (EC 3.4.11.2); Prohormone convertase; Apomorphine (Waters, S.M. (754) 28)

Stress; Restraint; Sensitization; 8-OH-DPAT; 5-HT_{1A}; Vacuous chewing movement; Catalepsy; Rat (Fdez. Espejo, E. (755) 351)

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Anesthetic; Decay kinetics; γ-Aminobutyric acid (GABA); Half-width; Hippocampus; Inhibitory postsynaptic current (IPSC); Prolongation (Lukatch, H.S. (765) 108)

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Dexmedetomidine; α_2-adrenergic agonist; Anesthetic; Electroencephalography; Electromyography (Farber, N.E. (774) 131)

Hamster
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Circadian; Suprachiasmatic nucleus; GABA; Vasoactive intestinal peptide; Peptide histidine isoleucine; Gastrin-releasing peptide (Gillespie, C.F. (759) 181)

Nitric oxide; Sympathetic nervous system; Cat; Guinea-pig; Mouse; Rabbit; Rat (Zanzinger, J. (764) 265)

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[^{3}H]BTCP
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[^{3}H]cAMP binding
cAMP-dependent protein kinase; Post-mortem brain tissue; Suicide; Depression; Antidepressant drugs; Cerebral cortex; Hippocampus; Amygdala (Lowther, S. (758) 223)

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HCl
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H-current
Suprachiasmatic nucleus; Circadian rhythm; Brain slice; Whole-cell patch-clamp; Spontaneous firing; Spike afterhyperpolarization (De Jeu, M.T.G. (767) 72)

Head injury
Hippocampus; Learning and memory; Morris water maze; Rat (Bramlett, H.M. (762) 195)

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Arterial blood pressure; α_2-Adrenoceptor; Imidazoline receptor; H_2 histamine-like receptor; Ventrolateral medulla; Intracerebroventricular (Ally, A. (761) 283)

Hemorrhage; Hypovolemia; Morphine; Opioid; Bradycardia; Blood pressure; Central nervous system (Ohnishi, M. (763) 39)

Animal model; Blood pressure; γ-Aminobutyric acid (GABA); Glutamate; *N*-Methyl-D-aspartate (NMDA); Non-NMDA; Panic; Stress (Sajdyk, T.J. (764) 262)

QX-314; Lidocaine; Dorsal root ganglia; Dorsal horn; Neuroma; Vagus nerve; Blood pressure; Pain; Local anesthetic; Na^+ channel blocker (Omana-Zapata, I. (771) 228)

Angiotensin II; Neuropeptide; Dorsal vagal motor nucleus; Blood pressure; Angiotensin II AT_1 receptor; Trout (Pamantung, T.F. (772) 167)

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Heat shock
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N-Methyl-D-aspartate (NMDA) receptor; Neurotoxicity; Memantine; Phencyclidine; Scopolamine (Tomitaka, S.-i. (763) 255)

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Heat shock protein (HSP)70
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Calcium current; Mammalian cell line; Neurotoxicity; Patch clamp; Whole cell (Hegg, C.C. (772) 63)

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Hemicholinium-3 binding
Aging; Spinal cord; GM1 ganglioside; Cholinergic neuron; Choline acetyltransferase; High-affinity choline transport (Vogelsberg, V. (761) 250)

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Hepatocyte growth factor activator
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High potassium-induced long-term potentiation
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Excitotoxicity; Infrared differential interference contrast videomicroscopy; Neostriatum; NMDA; Swelling (Colwell, C.S. (766) 205)

Histamine H_1 receptor
Homologous desensitization; Catecholamine secretion; $[Ca^{2+}]_i$ response; Rat; Adrenal chromaffin cell (Warashina, A. (762) 40)

Histochemistry
Mouse; Monoamine oxidase; Transgenic animal; Catecholamine; Serotonin; Aggressive behavior; Species difference (Ikemoto, K. (771) 121)

Histology
Global ischemia; Gerbil; Hippocampus; Neuroprotection; Zonisamide; Microdialysis; Glutamate; Behavior (Owen, A.J. (770) 115)

Histopathology
Cyclosporin A; Hyperglycemia; Ischemia; Brain damage; Mitochondria; Rat (Li, P.-A. (753) 133)

HIV
AIDS; Central nervous system; Microglia; Astrocytes; Organotypic culture; Receptor; Endocytosis (Hao, H.-N. (764) 149)

[^{3}H]MK801
Clozapine; Quantitative receptor autoradiography; *N*-Methyl-D-aspartate (NMDA) receptor; Rat (Giardino, L. (762) 216)

[^{3}H]MK912
Autoradiography; α_{2A}-Adrenoceptor; α_{2C}-Adrenoceptor; Spinal cord; Striatum (Uhlén, S. (770) 261)

[^{3}H]MK-801 binding
U-50,488H; κ-Opioid receptor agonist; Tolerance; Brain region; Spinal cord; Rat (Bhargava, H.N. (749) 347)

[^{3}H]Nemonapride
[^{3}H]Raclopride; σ Opioid receptor; PPAP; Dopamine D_4 receptor (Tang, S.W. (765) 7)

[^{3}H]*N*-(1-[2-Thienyl]cyclohexyl)piperidine binding
6-Hydroxydopamine; *N*-Methyl-D-aspartate receptor; Norepinephrine neurons; Norepinephrine utilization; Prefrontal cortex (Yoshida, Y. (744) 156)

H_2O_2
Aminotriazole; Astrocyte; Catalase; Glutathione; Glutathione reductase; Mercaptosuccinate; Pentose phosphate pathway (Dringen, R. (759) 67)

Hoffmann reflex
Voluntary movement; Anticipatory postural adjustment; Silent phase (Komiyama, T. (766) 227)

[^{3}H]8-OH-DPAT
5-HT_{1A} serotonin receptor; NMDA receptor; MK-801; Autoradiography (Wędzony, K. (756) 84)

Serotonin 1A receptor; Human brain postmortem; Neocortex; Hippocampus; Gender; Aging (Palego, L. (758) 26)

D,L-Homocysteic acid
Periaqueductal grey; Chemical stimulation; Dorsal horn; Antinociception; Rat (Waters, A.J. (752) 239)

Limbic cortex; Cingulate cortex; Autonomic nervous system (Fisk, G.D. (754) 204)

Homologous desensitization
Histamine H_1 receptor; Catecholamine secretion; $[Ca^{2+}]_i$ response; Rat; Adrenal chromaffin cell (Warashina, A. (762) 40)

Homovanillic acid
Dopamine; 3,4-Dihydroxyphenylalanine; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Dihydrotestosterone; Estrogen; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

3,4-Dihydroxyphenylacetic acid; Norepinephrine; 3-Methoxy-4-hydroxy-phenylglycol; 5-Hydroxytryptamine; 5-Hydroxyindoleacetic acid; Striatum; Nucleus accumbens (Irifune, M. (763) 281)

Dopamine; DOPAC; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug; Basal ganglia (Bowden, C. (769) 135)

Horizontal cell
Glutamate; Glycine; Rod; Calcium current; Xenopus (Akopian, A. (762) 121)

Hormone replacement therapy
Estrogen; Memory; Menopause; Animal model (Washburn, S.A. (758) 241)

Horseradish peroxidase
Superior colliculus; Brainstem; Afferent connections; Topographic projection; Fluorescent microsphere (Jiang, Z.D. (755) 279)

Inferior alveolar nerve; Nitric oxide; NADPH-diaphorase; Re-innervation; Trigeminal ganglion (Yonehara, N. (757) 31)

Cuneate nucleus; Glycine-immunoreactive neuron; Corticocuneate terminal; Immunoperoxidase (Lue, J.-H. (771) 167)

Parkinson's disease; Neural transplantation; Double transplants; Fluorogold (Mendez, I. (778) 194)

Hot flush
Gonadotropin releasing hormone; Female rat; Septal area; Preoptic area; Vasomotion; Thermoregulation (Hosono, T. (754) 88)

Hot plate test
Nerve growth factor; Nociception; Cerebrospinal fluid; Autoimmunization (Chudler, E.H. (765) 327)

3α HP
Pituitary; Synthesis of neuroactive 3α HP; Neurosteroid synthesis; 3α-Hydroxy-4-pregnen-20-one (3α HP) synthesis and metabolism; Steroidogenic pathway; Allopregnanolone synthesis from 3α HP (Wiebe, J.P. (764) 158)

HPLC
Norepinephrine; Dopamine; Serotonin; Vestibule; Rat (Gil-Loyzaga, P. (746) 265)

Octopamine; Peripheral nervous system; Gut; Earthworm; *Eisenia fetida*; Immunocytochemistry (Csoknya, M. (778) 414)

[^{3}H]Raclopride
[^{3}H]Nemonapride; σ Opioid receptor; PPAP; Dopamine D_4 receptor (Tang, S.W. (765) 7)

H_1 receptor
Analgesia; Antinociception; Histamine; Opioid; H_2 receptor; H_3 receptor; SKF92374; Cimetidine (Li, B.Y. (748) 168)

H_2 receptor
Analgesia; Antinociception; Histamine; Opioid; H_1 receptor; H_3 receptor; SKF92374; Cimetidine (Li, B.Y. (748) 168)

H_3 receptor
Analgesia; Antinociception; Histamine; Opioid; H_1 receptor; H_2 receptor; SKF92374; Cimetidine (Li, B.Y. (748) 168)

H-reflex
Motor evoked potential; Flexor carpi radialis; Motor imagery; Human (Kasai, T. (744) 147)

Information processing; Intersensory facilitation; Thenar muscle (Romaiguère, P. (755) 181)

Motor evoked potential; Flexor carpi radialis muscle; Tonic voluntary contraction; Phasic voluntary contraction; Human (Kasai, T. (764) 273)

[^{3}H]Ro 15-1788
Chromosome; Open field; Light/dark apparatus; Mapping (Clément, Y. (752) 127)

hsp70
c-fos; Brain slice; FBP (fructose-1,6-bisphosphate); Neonate; Hypoxia (Hasegawa, K. (750) 1)

HSP72
P-selectin; Cerebral ischemia; Rat; Middle cerebral artery (Suzuki, H. (759) 321)

Programmed cell death; Apoptosis; Necrosis; Rat; Neuron; Astrocyte; Heat shock; DNA fragmentation; TUNEL; Acridine orange; Immunohistochemistry (Vogel, P. (764) 205)

5-HT
3,4-Methylenedioxymethamphetamine (MDMA); D-Amphetamine; Cocaine; Methysergide; Self-stimulation; Performance; Reinforcement (Lin, H.Q. (744) 351)

Fenfluramine; Amphetamine; Neurotoxicity; Temperature; Thermoregulation; 5-HIAA (Malberg, J.E. (765) 101)

Serotonin; 5-HIAA; Dopamine; DA; Dominant; Subordinate; Lizard; Reptile; *Anolis carolinensis* (Summers, T.R. (767) 272)

Subiculum; Intracellular recording; Bursting cell; Regular firing cell; $GABA_A$; $GABA_B$; NMDA; AMPA (Behr, J. (773) 217)

5-HT_{1A}
5-HT_7; Agonist; Antagonist; Serotonin; Suprachiasmatic nucleus; Hippocampus; Cerebellum; Light; Entrainment; Photic response (Ying, S.-W. (755) 246)

Stress; Restraint; Sensitization; Haloperidol; 8-OH-DPAT; Vacuous chewing movement; Catalepsy; Rat (Fdez. Espejo, E. (755) 351)

5-HT_{1B}
Serotonin (5-HT); Fast cyclic voltammetry; Lateral geniculate nucleus; Electrical stimulation; 5-HT_{1D}; 5-HT uptake; Paroxetine (Davidson, C. (760) 238)

5-HT_{1D}
Serotonin (5-HT); Fast cyclic voltammetry; Lateral geniculate nucleus; Electrical stimulation; 5-HT_{1B}; 5-HT uptake; Paroxetine (Davidson, C. (760) 238)

5-HT_2
Serotonin; SSRI; 5-HT_2 receptor; Antidepressant; Receptor coupling; G-protein (Li, Q. (775) 225)

5-HT_{2A}
Calcium channel; Cultured astrocyte; Intracellular calcium; sK_{Ca} channel (Jalonen, T.O. (758) 69)

5-HT_7
5-HT_{1A}; Agonist; Antagonist; Serotonin; Suprachiasmatic nucleus; Hippocampus; Cerebellum; Light; Entrainment; Photic response (Ying, S.-W. (755) 246)

5-HT-accumulating neuron
Melatonin; Retina culture; Ischaemia; Kainate; GABAergic neuron (Cazevieille, C. (755) 91)

5-HT_{1A} agonist
Apoptosis; Neuronal cell; Nerve growth factor; Neuroprotection; Serum deprivation; 8-OH-DPAT (Ahlemeyer, B. (777) 179)

[^{3}H]Thymidine
Lizard, telencephalon; Reptile; Neurotoxin; Degeneration; Regeneration; Telencephalon; Reactive neurogenesis (Font, E. (754) 245)

5-HT_{1A} receptor
[^{3}H]WAY-100635; [^{11}C]WAY-100635; Hippocampus; Human brain; Whole hemisphere autoradiography (Hall, H. (745) 96)

Defensive rage behavior; Serotonin; Periaqueductal gray; 5-$HT_{2/1C}$ receptor; Hypothalamus; Cat; 8-OHDPAT; DOI hydrochloride; p-MPPI (Shaikh, M.B. (765) 198)

5-HT_{1B} receptor
Immunocytochemistry; Brain; Rat (Sari, Y. (760) 281)

5-HT_2 receptor
Acetylcholine release; Dopamine receptor; Neurokinin; Striatum (Ramírez, M.J. (757) 17)

Active sleep; Serotonin; Sleep development; REM sleep (Frank, M.G. (768) 287)

Serotonin; SSRI; 5-HT_2; Antidepressant; Receptor coupling; G-protein (Li, Q. (775) 225)

5-$HT_{2/1C}$ receptor
Defensive rage behavior; Serotonin; Periaqueductal gray; 5-HT_{1A} receptor; Hypothalamus; Cat; 8-OHDPAT; DOI hydrochloride; p-MPPI (Shaikh, M.B. (765) 198)

5-HT_3 receptor
Kindling; Serotonin; 1-(*m*-Chlorophenyl)-biguanide; Epilepsy; Seizure; Amygdala; Rat (Wada, Y. (759) 313)

Lordosis behavior; Lordosis quality; Ventromedial nucleus; Ovariectomized rat; Proestrous rat (Maswood, N. (769) 13)

5-HT_4 receptor
Acetylcholine; Serotonin; *p*-Chloroamphetamine; Frontal cortex; Rat (Yamaguchi, T. (772) 95)

5-HT_6 receptor
Serotonin; Anti-peptide antibodies; Immunoautoradiography; Immunocytochemistry; Rat brain (Gérard, C. (746) 207)

5-HT_{1A} serotonin receptor
NMDA receptor; MK-801; [^{3}H]8-OH-DPAT; Autoradiography (Wędzony, K. (756) 84)

5-HT uptake
Serotonin (5-HT); Fast cyclic voltammetry; Lateral geniculate nucleus; Electrical stimulation; 5-HT_{1B}; 5-HT_{1D}; Paroxetine (Davidson, C. (760) 238)

5-HT uptake inhibitor
Serotonin; Receptor coupling; Antidepressant; SSRI; Gpp(NH)p; 8-OH-DPAT binding; Hypothalamus (Li, Q. (769) 141)

Human
Transcranial magnetic brain stimulation; Simple reaction time; Silent period; Motor cortex; Supplementary motor area; Spinal motoneuron excitability; F wave (Ziemann, U. (744) 32)

Motor evoked potential; Flexor carpi radialis; H-reflex; Motor imagery (Kasai, T. (744) 147)

Auditory cortex; Internal representation; Magnetoencephalography; Brain; Omission (Raij, T. (745) 134)

Hippocampus; Medial temporal lobe; Functional brain imaging; MEG magnetoencephalographic source mapping; Spontaneous activity; Theta; SSP signal-space projection (Tesche, C.D. (749) 53)

Brain damage; Pathogenesis; Cerebral cortex; Cirrhosis of the liver; mRNA; Quantitative RT/PCR (Lewohl, J.M. (751) 102)

Cell adhesion molecule; Hippocampus; Dendrite; Neuron (Hino, H. (753) 353)

Circadian rhythm; Photoperiod; Melatonin; Cortisol (Vondrašová, D. (759) 166)

Potassium channel; Kv2.1; Antipsychotic agent; Fluspirilene (Wible, B. (761) 42)

Magnetoencephalography; Event-related potential; Temporal lobe; N400; Reading; Sentence comprehension (Simos, P.G. (762) 29)

Motor evoked potential; H-reflex; Flexor carpi radialis muscle; Tonic voluntary contraction; Phasic voluntary contraction (Kasai, T. (764) 273)

Testosterone; Steroid; Androgen; Corpus callosum; Commissure; Interhemispheric (Moffat, S.D. (767) 297)

Human amylin
Amyloid β protein; Alzheimer's disease; Astrocytes; Reactive gliosis; Cellular redox activity (Abe, K. (762) 285)

Human astrocytes
Alzheimer's disease; Interleukin-1β; Interleukin-6; Prostaglandin E_2 (Blom, M.A.A. (777) 210)

Human brain
5-HT_{1A} receptor; [^{3}H]WAY-100635; [^{11}C]WAY-100635; Hippocampus; Whole hemisphere autoradiography (Hall, H. (745) 96)

Cocaine; Vesicular monoamine transporter; Striatum; Autoradiography (Staley, J.K. (747) 219)

Gene expression; Glutamate receptor; Hybridization, in situ; Kainic acid receptor; Messenger RNA; Schizophrenia (Porter, R.H.P. (751) 217)

Progesterone; 5α-Pregnane-3,20-dione; 3α-Hydroxy-5α-pregnane-20-one (Bixo, M. (764) 173)

Human brain postmortem
Serotonin 1A receptor; [^{3}H]8-OH-DPAT; Neocortex; Hippocampus; Gender; Aging (Palego, L. (758) 26)

Human cerebellum
Evoked response; Median nerve; Functional imaging; Magnetoencephalography; Neuromagnetism (Tesche, C.D. (744) 23)

Human cranial nerve
Ganglioside composition; GQ1b; Miller Fisher syndrome; Guillain-Barré syndrome; Ophthalmoplegia (Chiba, A. (745) 32)

Human fetus
Melatonin; Melatonin receptor; Leptomeninges; Arachnoid; Pia mater (Drew, J.E. (761) 87)

Human recombinant tau htau40
Transglutaminase; Paired helical filament; Neurofibrillary tangle; Insoluble filament (Appelt, D.M. (745) 21)

Human specific
Transplantation; Leptomeningeal; Fibroblast; Amyloid; Uptake; Amyloid precursor protein (DeGiorgio, L.A. (752) 35)

Huntington's disease
3-Nitropropionic acid; Apoptosis; Mitochondria; DNA fragmentation (Sato, S. (745) 343)

Alzheimer's disease; *N*-Acetylaspartylglutamate; Glutamate; Peptide; Microglia; Striatum; Cerebral cortex (Passani, L.A. (772) 9)

NMDA receptor; Excitotoxicity; Neuroprotection; Basal ganglia; Hydroxyl radical; Nitric oxide; Indazole (Bazzett, T. (775) 229)

Quinolinic acid; 3-nitropropionic acid; Microdialysis (Reynolds Jr., N.C. (778) 140)

[^{3}H]WAY-100635
5-HT_{1A} receptor; [^{11}C]WAY-100635; Hippocampus; Human brain; Whole hemisphere autoradiography (Hall, H. (745) 96)

Hybridization, in situ
Focal ischemia; Apoptosis; Enkephalin; TUNEL; Rat striatum (Popovici, T. (744) 185)

Gene expression; Glutamate receptor; Human brain; Kainic acid receptor; Messenger RNA; Schizophrenia (Porter, R.H.P. (751) 217)

Immunohistochemistry; Nerve injury; Neuropeptide; Pain (Kerekes, N. (754) 131)

Thyrotropin releasing hormone (TRH); Biosynthesis; Processing; Convertase; PC1; PC2; Hypothalamus; Paraventricular nucleus (Sánchez, E. (761) 77)

Stress; Estrogen; Androgen; Proenkephalin; Corticotropin releasing factor; C-*fos*; Paraventricular nucleus; Hypertonic saline; Novelty heteronuclear RNA (Yukhananov, R.Y. (764) 109)

Methamphetamine; Behavioral sensitization; Calmodulin; Radioimmunoassay; Dopamine (Shimizu, Y. (765) 247)

Axotomy; Extracellular signal regulated kinase 1; Rat; Vagus nerve; Hypoglossal nerve (Mishima, K. (766) 50)

Neurodegenerative disease; Gene expression; Pyramidal neuron; Hippocampus; Temporal cortex; Neuroinflammatory (Shen, Y. (769) 391)

Hybridoma
Dorsal root ganglia; Sensory neuron; Nerve growth factor; Neurite regeneration; Phosphorylation; Neurofilament (Hikawa, N. (774) 225)

Hydrocephalus
Cerebral ischemia; Cerebral edema; Magnetic resonance spectroscopy; Diffusion weighted magnetic resonance imaging (Braun, K.P.J. (757) 295)

Zinc; Albumin; Nagase analbuminemic rat; Choroid plexus; Ventricle; Blood–cerebrospinal fluid barrier (Takeda, A. (769) 193)

Hydrogen peroxide
Dopamine; Substantia nigra; Microdialysis; Cerebral ischemia; Striatum; Rat (Lei, B. (764) 299)

Neuron; Astrocyte; Coculture; Neuroprotection; Glutathione; Dopamine; Neurodegeneration (Drukarch, B. (770) 123)

Superoxide dismutase; Catalase; Cytotoxicity (Mann, H. (770) 163)

3α-Hydroxy-5α-pregnane-20-one
Progesterone; 5α-Pregnane-3,20-dione; Human brain (Bixo, M. (764) 173)

3α-Hydroxy-5α-pregnan-20-one
$GABA_A$ receptor; Neurosteroid; Benzodiazepine; Medulla; Allopregnanolone; Female; Rat (Garrett, K.M. (768) 301)

8-Hydroxy-2-(di-*n*-propylamino)tetralin
Acetylcholine; NAN-190; $Serotonin_{1A}$ receptor; Hippocampus; Microdialysis; Radioimmunoassay (Fujii, T. (761) 244)

6-Hydroxydopamine
N-Methyl-D-aspartate receptor; Norepinephrine neurons; Norepinephrine utilization; Prefrontal cortex; [^{3}H]*N*-(1-[2-Thienyl]cyclohexyl)piperidine binding (Yoshida, Y. (744) 156)

Entopeduncular nucleus; Glutamate; Aspartate; Microdialysis; Reserpine (Biggs, C.S. (753) 163)

Ventral pallidum; Microdialysis; Dopamine; Cocaine; Conditioned place preference; Locomotion; Nucleus accumbens (Gong, W. (754) 103)

Dopamine; Anxiety; Elevated plus maze; Prefrontal cortex; Locomotion; Rat (Espejo, E.F. (762) 281)

Immunocytochemistry; Medial prefrontal cortex; Neostriatum; Nucleus accumbens core and shell; Schizophrenia; Stress; Tyrosine hydroxylase (King, D. (767) 192)

Recovery; Regeneration; Neurotrophic factor; Dopaminergic neuron; Neurodegeneration; Direct gene transfer; Substantia nigra; Dopamine turnover (Lapchak, P.A. (777) 153)

6-Hydroxydopamine lesion
Parkinson's disease; Transplantation; Behavioral test; Rotational behavior (Rozas, G. (749) 188)

Dopamine release and uptake; Voltammetry; Nigrostriatal dopamine neuron; Electrical stimulation; Striatum (Garris, P.A. (753) 225)

Hydroxyindole acetic acid
Dopamine; 3,4-Dihydroxyphenylalanine; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Dihydrotestosterone; Estrogen; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

5-Hydroxyindoleacetic acid
3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; 5-Hydroxytryptamine; Striatum; Nucleus accumbens (Irifune, M. (763) 281)

5-Hydroxyindoleacetic acid (5-HIAA)
Dopamine; γ-Aminobutyric acid (GABA); Ketamine; Microdialysis; Prefrontal cortex (Lindefors, N. (759) 205)

Hydroxyindole-*O*-methyltransferase
Melatonin; Diurnal variation; Silkworm; *Bombyx mori*; Insect (Itoh, M.T. (765) 61)

Hydroxyl radical
Cerebral ischemia; Delayed neuronal death; MCI-186; Radical scavenger; Rat hippocampus (Yamamoto, T. (762) 240)

NMDA receptor; Huntington's disease; Excitotoxicity; Neuroprotection; Basal ganglia; Nitric oxide; Indazole (Bazzett, T. (775) 229)

4-Hydroxynonenal
Alzheimer's disease; Apoptosis; Diethyldithiocarbamate; Dihydrorhodamine; Hippocampal neuron; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Ouabain; Superoxide anion radical (Mark, R.J. (756) 205)

4-Hydroxy-2-nonenal
Middle cerebral artery occlusion and reperfusion; Lipid peroxidation; OX-42; Microglia; Immunohistochemistry; Neuronal death (Yoshino, H. (767) 81)

3α-Hydroxy-4-pregnen-20-one (3α HP) synthesis and metabolism
Pituitary; Synthesis of neuroactive 3α HP; Neurosteroid synthesis; 3α HP; Steroidogenic pathway; Allopregnanolone synthesis from 3α HP (Wiebe, J.P. (764) 158)

5-Hydroxytryptamine
Paraventricular nucleus; Stress ulcer; Acetylcholine; Norepinephrine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; 5-Hydroxyindoleacetic acid; Striatum; Nucleus accumbens (Irifune, M. (763) 281)

Perforant pathway; Excitatory amino acid; Postsynaptic inhibition; Temporoammonic projection; Glutamate (Grünschlag, C.R. (770) 10)

Proopiomelanocortin; mRNA; Pituitary; 5,7-Dihydroxytryptamine (García-García, L. (772) 115)

p-Chlorophenylalanine; Bed nucleus; Caudate–putamen; Thalamus; Amygdala; Parabrachial nucleus; Nucleus of the solitary tract (Javed, A. (774) 94)

5-Hydroxytryptamine receptor
Myelin; Node of Ranvier; Nerve regeneration; Wallerian degeneration; Anti-idiotypic antibody; Mast cell (Yoder, E.J. (753) 299)

$5\text{-Hydroxytryptamine}_3$ receptor
Hippocampus; Working memory; Y-25130; Serotonin; Acetylcholine; Scopolamine; NMDA receptor (Ohno, M. (762) 211)

$5\text{-Hydroxytryptamine}_{1A}$ receptor
Dorsal raphe neuron; Inwardly rectifying K^+ current; G protein; Nystatin perforated patch recording; Rat (Katayama, J. (745) 283)

Laser-Doppler flowmetry; Cerebral blood flow; Iodoantipyrine; CO_2 reactivity (Bonvento, G. (767) 208)

Hyperactivity
Antimuscarinic; Mesopontine; Dopaminergic; Cholinergic; Psychosis (Mathur, A. (775) 144)

Hyperalgesia
Pain facilitation; Spinal cord; Rat; Nucleus tractus solitarius; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Formalin; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Prostaglandin E_2; Wide dynamic range neuron; Analgesia; Pain; Central nervous system; Brain (Oka, T. (749) 354)

Nerve injury; Nociceptive flexion reflex; Neuropeptide Y; [Leu^{31},Pro^{34}]-neuropeptide Y; *N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y_{24-36}; α-Trinositol (White, D.M. (750) 141)

Tachykinin; Neurokinin receptor; Nociception; Inflammation; Neurokinin A; Flexor reflex; Spinal cord (Jia, Y.-p. (751) 169)

Allodynia; Interleukin-1β; Tumor necrosis factor-α; Basic fibroblast growth factor; Neuroimmune activation; Transforming growth factor-β (DeLeo, J.A. (759) 50)

Endotoxin; Inflammatory pain; c-fos protein; Opioid; Pain test; Dorsal horn (Saadé, N.E. (769) 57)

Neuropathic pain; Pain; Rat; Spinalization; Sciatic nerve (Kauppila, T. (770) 310)

Prostaglandin E_2; Analgesia; 17-Phenyl-ω-trinor prostaglandin E_2; MB28767; Pain; Central nervous system (Oka, T. (771) 278)

Second messenger; Pain; Protein kinase (Sluka, K.A. (772) 82)

Inflammation; Nociceptor; Spinal neuron; Pain (Randich, A. (772) 135)

Inflammation; Inhibition; Pain; Dorsal horn; Disinhibition (Traub, R.J. (778) 34)

Hypercapnia
Ca^{2+}-activated K^+ channel; Hypoxia; O_2 disappearance rate; Tissue PO_2 (Osanai, S. (747) 324)

Cerebral blood flow; Nitric oxide; Adenosine; Caffeine; Cortical arousal; Electrocorticogram (Estevez, A.Y. (758) 1)

Cortical spreading depression; Coupling; Glucose; Cytochrome *aa*3; Hemoglobin; Laser Doppler; Near-infrared spectroscopy; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Hyperglycemia
Cyclosporin A; Ischemia; Brain damage; Mitochondria; Rat; Histopathology (Li, P.-A. (753) 133)

Global ischemia; Apparent diffusion coefficient of brain water (ADCw); MRI; Diffusion imaging; Stroke (Huang, N.C. (757) 139)

Hyperkalemia
Choroid plexus; Potassium; Hypokalemia; Na^+/K^+-ATPase; Cotransport (Klarr, S.A. (758) 39)

Hyperoxia
Fasting; Food deprivation; Water deprivation; Diving; High oxygen pressure; Epilepsy (Bitterman, N. (761) 146)

Hyperphagia
Neuropeptide Y; PreproNPY mRNA; Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Streptozotocin; Diabetes (Sahu, A. (755) 339)

Hyperphenylalaninemia
Blood–brain barrier; Difference spectroscopy; Michaelis–Menten kinetics; Proton magnetic resonance spectroscopy; Phenylalanine transport; Phenylketonuria; Saturation kinetics (Möller, H.E. (778) 329)

Hyperprolinemia
Proline; Synaptic plasticity; Long-term potentiation; Hippocampus; NMDA receptor; Paired-pulse facilitation (Cohen, S.M. (761) 271)

Proline; Synaptic plasticity; Hippocampus; Glutamate; Aspartate; Transmitter release; Paired pulse facilitation (Cohen, S.M. (769) 333)

Hypertension
N^G-Nitro-L-arginine; Nitric oxide; Vasopressin (Paczwa, P. (748) 51)

Focal cerebral ischemia; Microcirculation; Perfusion; Spontaneously hypertensive rat; Fluorescence microscopy; Evans blue; Phenylephrine (Dawson, D.A. (749) 200)

EPA-E; SHRSP; l-CBF; l-CGU; Prostaglandin; Vasodilation (Katayama, Y. (761) 300)

Hypotension; Bradycardia; Emotion; Opiate; Analgesia; Visceral pain (Keay, K.A. (762) 61)

Hypertensive rat
Brain ischemia; L-Arginine; N^{ω}-Nitro-L-arginine; Reperfusion (Sadoshima, S. (744) 246)

Hyperthermia
Prostaglandin E_2 (PGE_2); Vagotomy; c-fos; Sickness; Rat; Immediate-early gene (Milligan, E.D. (766) 240)

Prostaglandin E_2; EP_1 receptor; 17-Phenyl-ω-trinor prostaglandin E_2; Diagonal band of Broca; Anterior wall of the third ventricle; Fever (Oka, K. (767) 92)

Hyperthyroidism
Myelin basic protein; Proteolipid protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Myelin-associated glycoprotein; Platelet-derived growth factor receptor; Thyroid hormone; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Hypertonia
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Hypothalamo-pituitary-adrenocortical axis
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Brain angiotensin system; [^{125}I]Sar^1–Ang II binding; [^{125}I]CGP 42112 binding; AT_1 receptor; AT_2 receptor (Jöhren, O. (757) 218)

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Learning; Plasticity; Stress; Gene expression; Hearing deficit; Novel sound stimulation (Hillman, D.E. (748) 77)

Inward rectifying K^+ channel; IRK1; GIRK1; Dendrite; Development (Miyashita, T. (750) 251)

γ-Aminobutyric acid (GABA); Calcium-binding protein; Neuropeptide; Hippocampus; Rat (Nomura, T. (751) 64)

Immediate–early gene; Neuropeptide; Transcription factor; Food intake (Houpt, T.A. (751) 143)

Mechanical allodynia; Peripheral nerve injury; Sensory ganglion; Sympathetic sprouting; Tyrosine hydroxylase; Ultrastructure (Chung, K. (751) 275)

Weaver; Inward rectifier K^+ channel; Cell death; In situ hybridization (Lauritzen, I. (753) 8)

Hybridization, in situ; Nerve injury; Neuropeptide; Pain (Kerekes, N. (754) 131)

Nucleus tractus solitarius; Caudal ventrolateral medulla; Substance P; Retrograde tracing; Electron microscopy; Rat (Kawano, H. (754) 315)

Retina; Connexin; Gap junction; Electrical synapse; Immunoblot; Cx43; Müller cell (Giblin, L.J. (755) 146)

Long-term potentiation; Ca^{2+}/calmodulin-dependent protein kinase; Hippocampus; Western blot (Tokuda, M. (755) 162)

Alzheimer's disease; Amyloid β-protein; Amyloid β-protein precursor; Amyloid angiopathy; Choroid plexus; Systemic amyloidosis (Sasaki, A. (755) 193)

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Vestibular compensation; Neural plasticity; Nystagmus; Vestibulocerebellum; Granule cell layer; N^{ω}-Nitro-L-arginine methyl ester (L-NAME); 2-Phenyl-4,4,5,5-tetramethyl-1-oxyl-3-oxide (PTIO) (Kitahara, T. (765) 1)

Cerebral ischemia; Delayed neuronal death; CA1; Hypothermia; Neuroprotection; Astroglia; Microglia (Nakajima, Y. (765) 113)

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Neuroglia; Hypomyelination; Lectin histochemistry; Double staining (Vela, J.M. (767) 345)

P-glycoprotein; Inner ear; Cochlea; Vestibule; Blood–inner ear barrier; Blood–brain barrier; Western blotting (Saito, T. (767) 388)

Fos; Nerve injury; Tissue injury; Trigeminal nucleus caudalis; Infraorbital nerve (Terayama, R. (768) 135)

Calbindin D-28k; Jugular ganglion; Nodose ganglion; Parvalbumin; Petrosal ganglion; S100; Vagal afferent neuron (Ichikawa, H. (768) 349)

Nerve regeneration; Peripheral nerve; Nerve graft; Schwann cell; Silicone; Implant; Matrix (Zhao, Q. (769) 125)

Pyramidal neuron; Hippocampus; Western blot; Temporal cortex (Terai, K. (769) 385)

Mechanical distortion; Kaolin-induced hydrocephalus; Basal ganglia; Acetylcholine; GABA; Dopamine (Tashiro, Y. (770) 45)

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Calretinin; Incisor; Parvalbumin; Periodontal ligament; Ruffini-like ending; Trigeminal ganglion (Ichikawa, H. (770) 294)

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GTP-cyclohydrolase-I; Tetrahydrobiopterin; Rat brain; Monoaminergic neuron (Dassesse, D. (777) 187)

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Adrenalectomy; Granule cell death; Nissl and silver staining; Glucocorticoid receptor; Rat (Hu, Z. (778) 293)

Glutamate; Visceral sensory neuron; Vagus nerve ganglion; Rat (Schaffar, N. (778) 302)

Cerebellum; Substance P; Purkinje cell; Gerbil (Kang, T.-C. (778) 397)

Immunolabeling
S-182; Presenilin-1; Monoclonal antibody; Alzheimer disease; Down syndrome; Rat; Mice (Kim, K.S. (757) 159)

Immunolocalization
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Immunoperoxidase
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Immunotitration
Carotid body; Arterial chemoreceptor; Neutral endopeptidase 24.11; Ultrastructural localization; Enkephalinase; Neprilysin (Kumar, G.K. (748) 39)

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Nerve regeneration; Peripheral nerve; Nerve graft; Schwann cell; Silicone; Matrix; Immunohistochemistry (Zhao, Q. (769) 125)

Inbred strains
Pharmacogenetics; Operant responding; Cocaine plasma levels; Drug reinforcement; Vulnerability to drug abuse (Kosten, T.A. (778) 418)

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Nucleus accumbens; Psychomotor stimulant; Cocaine; Single neuron recording; Self-administration; Appetitive behavior; Reward (Peoples, L.L. (757) 280)

Incisor
Calretinin; Immunohistochemistry; Parvalbumin; Periodontal ligament; Ruffini-like ending; Trigeminal ganglion (Ichikawa, H. (770) 294)

Inclusions
Aging; Alzheimer's disease; Astrocyte; Cognition; Cysteamine; Hippocampus; Locomotion; Somatostatin (Justino, L. (761) 127)

Indazole
NMDA receptor; Huntington's disease; Excitotoxicity; Neuroprotection; Basal ganglia; Hydroxyl radical; Nitric oxide (Bazzett, T. (775) 229)

Indolamine
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Indomethacin
N-Methyl-D-aspartate; Brain temperature; *N*-ω-Nitro-L-arginine; Rat (Hara, S. (756) 301)

Inducible nitric oxide synthase
Nitric oxide; Interferon regulatory factor-1; Nuclear transcription factor kappa B; Glial cell; Diethyldithiocarbamate (Fujimura, M. (759) 247)

Induction
Lipocortin; Annexin; Astrocytoma cell; Secretion; Glucocorticoid (Mizuno, H. (746) 265)

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TDN-345; C6-10A; Astrocytoma; Nerve growth factor; Neurotrophic factor (Fukumoto, H. (774) 87)

Indusium griseum
Methamphetamine; Hippocampal remnant; Seizure; Neurodegeneration; Fluoro-Jade; Glutamate; Catecholamine (Schmued, L.C. (759) 135)

Infantile onset spinocerebellar ataxia with sensory neuropathy
Neurofilament protein; Neuronal development; NF-66; NF-L; In situ hybridization; Cerebellum granule cell; 10q24 (Chan, S.-O. (775) 107)

Infarction
Cerebral ischemia; Oxidative metabolism; Baboon; Reperfusion; Neuroprotection; Stroke; Positron emission tomography (Touzani, O. (767) 17)

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Infarct size
P/Q-type Ca^{2+} channel; ω-Agatoxin IVA; Focal ischemia; Brain edema; Neuroprotection (Asakura, K. (776) 140)

Inferior alveolar nerve
Degeneration; Regeneration; Periodontal ligament; Protein gene product 9.5; Neuropeptide Y; Ruffini ending; Nerve injury (Youn, S.H. (752) 161)

Nitric oxide; NADPH-diaphorase; Re-innervation; Horseradish peroxidase; Trigeminal ganglion (Yonehara, N. (757) 31)

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Global brain ischemia; Neck tourniquet; Audiogenic seizure; Silver impregnation (Vanický, I. (766) 262)

Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Cytochrome oxidase; Quantitative cytochemistry; Morphometry; Alzheimer's disease; Cellular energy metabolism (Gonzalez-Lima, F. (752) 117)

c-Fos; JunB; Dorsal cochlear nucleus; Ventral cochlear nucleus; Deprivation; Repetitive stimulation (Keilmann, A. (753) 291)

Adeno-associated virus; Gene therapy; Seizure; γ-Aminobutyric acid (GABA); Antisense (Xiao, X. (756) 76)

Auditory system; Intracellular; Recording, in vivo (Pedemonte, M. (759) 24)

Genetically epilepsy-prone rats; Audiogenic seizures; Seizures; Neuronal network (Chakravarty, D.N. (761) 263)

γ-Aminobutyric acid (GABA); Inhibitory neurotransmitter; Brachium; Medial geniculate; Quantitative morphometry; Cat (Saint Marie, R.L. (765) 173)

Cyclooxygenase; Seizure; Immediate-early gene (McCown, T.J. (767) 370)

Nucleus X; Somatosensory system; Brainstem; Medulla oblongata; Thalamus; Cerebellum; Rat (Li, H. (774) 200)

Inferior mesenteric ganglion
Uterus; Retrograde tracing; Sympathetic chain; Superior mesenteric ganglion; Rat (Vera, P.L. (747) 140)

Inferior olive
Dizocilpine; Harmaline; Nictitating membrane response; Rabbit; Tremor (Du, W. (745) 183)

Fos; Vestibular; Otolith; Semicircular canal (Marshburn, T.H. (761) 51)

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Inflammation
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Alzheimer's disease; Senile plaque; Binding (McGeer, P.L. (749) 135)

Acute-phase; Amyloid P component; Pentraxin; PHF-1 (Duong, T. (749) 152)

Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Neurokinin A; Flexor reflex; Spinal cord (Jia, Y.-p. (751) 169)

Subnucleus reticularis dorsalis; Naloxone; Analgesia (Tsuruoka, M. (762) 264)

Hyperalgesia; Nociceptor; Spinal neuron; Pain (Randich, A. (772) 135)

Blood–nerve barrier; Perineurium; Inflammatory mediator; Bile salt; Protamine; Frog; Amphibian (Todd, B.A. (776) 214)

Inhibition; Pain; Hyperalgesia; Dorsal horn; Disinhibition (Traub, R.J. (778) 34)

Inflammatory mediator
Blood–nerve barrier; Perineurium; Inflammation; Bile salt; Protamine; Frog; Amphibian (Todd, B.A. (776) 214)

Inflammatory pain
Endotoxin; Hyperalgesia; c-fos protein; Opioid; Pain test; Dorsal horn (Saadé, N.E. (769) 57)

Influenza virus
Interleukin-1; Interleukin-6; Tumor necrosis factor α; Endotoxin; Feeding; IL-1-receptor antagonist (Swiergiel, A.H. (776) 96)

Information processing
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Infralimbic cortex
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Infraorbital nerve
Fos; Nerve injury; Tissue injury; Trigeminal nucleus caudalis; Immunohistochemistry (Terayama, R. (768) 135)

Infrared differential interference contrast videomicroscopy
Excitotoxicity; Histamine; Neostriatum; NMDA; Swelling (Colwell, C.S. (766) 205)

Infrared laser
Masseter muscle; Inhibitory reflex; Brainstem; Nociceptor (Ellrich, J. (764) 214)

Infusion
Hypothalamus; Diet selection; Fat; Carbohydrate; Protein; Enriched; Macronutrient (Van Dijk, G. (777) 147)

Apamin; Brain damage; Ca^{2+}-activated K^+ channel; Cerebellum; Seizure (Mourre, C. (778) 405)

Ingestive behavior
Area postrema; Nucleus of the solitary tract; Arcuate nucleus; Paraventricular nucleus; Food intake; Diet selection (Edwards, G.L. (755) 84)

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Inhalational
Nitric oxide; Nitric oxide synthase; Anesthetic; Halothane; Rat brain (Tagliente, T.M. (767) 393)

Inhibition
Interneurone; Pericellular basket; Vertical organisation; Limbic cortex (Gabbott, P.L.A. (744) 179)

Amantadine; Phosphodiesterase; Calmodulin; Parkinson's disease (Kakkar, R. (749) 290)

Synapse; Axo-axonic; Trigeminal motor nucleus; Parvocellular reticular nucleus; Peritrigeminal nucleus; Immunogold; Electron microscopy (Yang, H.-W. (749) 301)

Toosendanin; Presynaptic blocker; NG108-15 cell; Delayed rectifier potassium current; Whole-cell recording (Hu, Q. (751) 47)

Superior cervical ganglion; γ-Aminobutyric acid (GABA); GABA receptors; Picrotoxin; Synaptic plasticity; Long-term potentiation (González Burgos, G.R. (751) 148)

Alveus; *Str. radiatum*; Epilepsy; Muscarinic receptor; γ-Aminobutyric acid (GABA); Status epilepticus (Sayin, Ü. (758) 136)

Spinal cord; Toxin (Bagust, J. (773) 181)

γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Paired-pulse depression; Short-term plasticity; Superior colliculus; Transmitter release (Platt, B. (777) 131)

Inflammation; Pain; Hyperalgesia; Dorsal horn; Disinhibition (Traub, R.J. (778) 34)

Inhibitor
Corticosteroid; Calpain; Spinal cord; Neurofilament; Myelin basic protein; Neuroprotection (Banik, N.L. (748) 205)

Inhibitory amino acid
Norepinephrine; Dorsal medulla; Opioid peptide (Van Bockstaele, E.J. (746) 171)

Inhibitory avoidance
Glucose; Muscimol; γ-Aminobutyric acid (GABA); Medial septum; Memory (Parent, M.B. (745) 317)

Memory; Hippocampus; Habituation; Phosphorylation; Intermediate filament (Schröder, N. (749) 275)

Amygdala; Benzodiazepine; Midazolam; Aversive learning; Post-training; Memory; Amnesia (Dickinson-Anson, H. (752) 197)

Inhibitory avoidance task
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Inhibitory interneuron
Cerebral cortex; γ-Aminobutyric acid; Vasoactive intestinal polypeptide; Acetylcholine; Mirror technique (Bayraktar, T. (757) 209)

Inhibitory neurotransmitter
γ-Aminobutyric acid (GABA); Brachium; Inferior colliculus; Medial geniculate; Quantitative morphometry; Cat (Saint Marie, R.L. (765) 173)

Inhibitory postsynaptic current
Plasmin; Excitatory postsynaptic current; CA1 pyramidal cell; γ-Aminobutyric acid (GABA); Whole-cell recording; Hippocampal slice; Rat (Mizutani, A. (761) 93)

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Inhibitory postsynaptic potentials (IPSPs)
Muscarinic; Acetylcholine; Glutamate; γ-Aminobutyric acid (GABA); Neocortex; Disinhibition (Aramakis, V.B. (758) 107)

Inhibitory reflex
Masseter muscle; Brainstem; Infrared laser; Nociceptor (Ellrich, J. (764) 214)

Injury
Axonal regeneration; GAP-43; Axotomy; CNS; Cortical neuron (Elliott, E.J. (755) 221)

Apolipoprotein E; Brain; Rat; Subdural haematoma; Immunohistochemistry; Immunoblotting (Horsburgh, K. (763) 103)

Developing brain; Reactive astrocyte; Interferon gamma; Proliferation; Rat (Pawliński, R. (773) 231)

Inner ear
Apoptosis; Programmed cell death; Aging; Cochleo-saccular degeneration; Mouse (Usami, S.-i. (747) 147)

P-glycoprotein; Immunohistochemistry; Cochlea; Vestibule; Blood–inner ear barrier; Blood–brain barrier; Western blotting (Saito, T. (767) 388)

Inorganic phosphate
Phosphate transport; Cortical neuron; ATP; NADPH; Pentose phosphate; Energy metabolism (Glinn, M. (757) 85)

Inorganic phosphate transporter
NaP_i-2; Reverse transcription-polymerase chain reaction (RT-PCR); Immunohistochemistry; Nonpyramidal neuron; Rat brain (Hisano, S. (772) 149)

Inositol
Inositol monophosphatase; Lithium; Galactose 1-phosphatase; Mood-stabilizing drug (Parthasarathy, R. (778) 99)

Inositol monophosphatase
Lithium; Inositol; Galactose 1-phosphatase; Mood-stabilizing drug (Parthasarathy, R. (778) 99)

Insect
Hydroxyindole-*O*-methyltransferase; Melatonin; Diurnal variation; Silkworm; *Bombyx mori* (Itoh, M.T. (765) 61)

Insect nervous system
Neurotransmitter; Nitric oxide; Antennal lobe; Mushroom body; Olfactory information processing (Seidel, C. (769) 273)

In situ end labeling
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In situ hybridization
Glutamate receptor channel δ2 subunit; Purkinje cell; Granule cell; Parallel fiber; Weaver mouse; Reeler mouse; Immunohistochemistry (Takayama, C. (745) 231)

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Alzheimer's disease; Rat; Presenilin-1; Presenilin-2 (Takami, K. (748) 122)

Brain-derived neurotrophic factor; Nerve growth factor; mRNA; Dorsal root ganglion; Peripheral inflammation; Pain (Cho, H.-J. (749) 358)

Weaver; Inward rectifier K^+ channel; Cell death; Immunohistochemistry (Lauritzen, I. (753) 8)

Mesencephalic trigeminal neuron; γ-Aminobutyric acid (GABA); $GABA_A$ receptor; Sensory neuron; GABA uptake (Hayar, A. (753) 120)

c-*jun*; Restraint stress; Midazolam; NMDA; Serotonin; Hippocampus (De Oliveira, C.L. (753) 202)

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Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Vasopressin; Immunocytochemistry; Hypothalamus (Shioda, S. (765) 81)

(Na,K)-ATPase; Aldosterone; Salt appetite (Grillo, C. (767) 120)

Rat; CGRP; Red nucleus; Axotomy; BDNF (Fukuoka, T. (767) 250)

Kainate; Glutamate receptor; Basal ganglia (Wüllner, U. (768) 215)

GnRH; LHRH mRNA; GnRH mRNA; Estrous cyclicity; Age-related; Hypothalamus; Digoxigenin (Rubin, B.S. (770) 267)

Lithium; Arginine vasopressin; Supraoptic nucleus; Paraventricular nucleus; Rat (Anai, H. (772) 161)

Pituitary adenylate cyclase-activating peptide; Corticotropin-releasing hormone; Hypothalamic paraventricular nucleus; Hypothalamo-pituitary-adrenocortical axis (Grinevich, V. (773) 190)

Calcitonin receptor-like receptor; Calcitonin gene-related peptide; Receptor (Flühmann, B. (774) 184)

Neurofilament protein; Neuronal development; NF-66; NF-L; Cerebellum granule cell; 10q24; Infantile onset spinocerebellar ataxia with sensory neuropathy (Chan, S.-O. (775) 107)

Weaver; Thalamus; Substantia nigra; Cerebellum; K_{IR} channel (Chen, S.-C. (778) 251)

Serotonin transporter; Raphe nuclei; Gene expression; [^{125}I]RTI-55 binding; Mice (Bengel, D. (778) 338)

In situ hybridization histochemistry
Cocaine; Dopamine transporter; Sensitization; mRNA; Autoradiography; Rat (Letchworth, S.R. (750) 214)

In situ phosphorylation
Protein kinase C translocation; MARCKS; Neurogranin; Two-dimensional gel electrophoresis; Phorbol ester; Hippocampal slice (Angenstein, F. (745) 46)

Insoluble filament
Transglutaminase; Human recombinant tau htau40; Paired helical filament; Neurofibrillary tangle (Appelt, D.M. (745) 21)

Insomnia
Thalamus; Prion disease (Macchi, G. (771) 154)

Inspiratory neuron
Spontaneous augmented breath; Dorsal respiratory group; Ventral respiratory group; Expiratory neuron; Extracellular recording (Takeda, M. (749) 95)

Vomiting; Respiratory center; Pre-Bötzinger complex; Ventral respiratory group (Fukuda, H. (763) 30)

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Learning; Memory; Conditioning; Neuron; Excitability (Tsitolovsky, L.E. (745) 271)

Insular cortex
Baroreceptor-related neuron; Extracellular recording; Lateralisation; Rat (Zhang, Z. (760) 243)

Chorda tympani; Glossopharyngeal nerve; Superior laryngeal nerve; Convergence; Rat (Hanamori, T. (763) 267)

Insulin
Erythropoietin; Insulin-like growth factor-I; Insulin-like growth factor-II astrocyte; Oxygen; mRNA (Masuda, S. (746) 63)

Adrenal gland; Autonomic nervous system; Glucagon; Glucose metabolism; Pancreas (Jansen, A.S.P. (766) 29)

Neuropeptide Y; Galanin; Hypothalamus; Arcuate nucleus; Paraventricular nucleus (Wang, J. (777) 231)

Insulin-like growth factor
Binding protein; Transgenic mouse; Brain development; Astrocyte (Ni, W. (769) 97)

Insulin-like growth factor-I
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Insulin-like growth factor-II astrocyte
Erythropoietin; Insulin; Insulin-like growth factor-I; Oxygen; mRNA (Masuda, S. (746) 63)

Insulin-like growth factor-I receptor
Multiple sclerosis; Insulin-like growth factor-I; Myelination; Astrogliosis (Wilczak, N. (772) 243)

Integrin
Alzheimer's disease; β-Amyloid; Microglia; Nitric oxide; Tissue culture; Flow cytometry (Goodwin, J.L. (768) 279)

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Dopamine; Turnover; Parkinsonism; Depression; Suicide (Shuto, H. (747) 348)

Interferonγ
LRP; α_2MR; Neuroblastoma; Differentiation; α_2Macroglobulin; Phorbol ester; Retinoic acid (Fabrizi, C. (776) 154)

Interferon gamma
Developing brain; Injury; Reactive astrocyte; Proliferation; Rat (Pawliński, R. (773) 231)

Interferon regulatory factor-1
Nitric oxide; Inducible nitric oxide synthase; Nuclear transcription factor kappa B; Glial cell; Diethyldithiocarbamate (Fujimura, M. (759) 247)

Intergeniculate leaflet
Pineal gland; Superior cervical ganglion; Ganglionectomy; Deep pineal; Lamina intercalaris (Bartol, I. (744) 77)

Glutamate receptor; Immunocytochemistry; Suprachiasmatic nucleus (Stamp, J.A. (756) 215)

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Interhemispheric difference
Neuromagnetism; Somatosensory evoked field; Hand cortical representation (Tecchio, F. (767) 100)

Interictal discharge
Epilepsy; Diffusion; Apparent diffusion coefficient; Ion-selective microelectrode; Cerebral cortex (Schwindt, W. (753) 86)

Interleukin
Neurodegeneration; Microglia; Macrophage; Cytokine; Inflammation; Interferon (Klegeris, A. (747) 114)

Interleukin-1
Behavior; C3H/HeJ; Cytokine; Food motivation; Lipopolysaccharide (Johnson, R.W. (752) 219)

Microdialysis; Serotonin; Dopamine; Norepinephrine; Rat (Merali, Z. (761) 225)

Lipopolysaccharide; Sickness behavior; Sexual behavior; Partner preference; Open field test; Gender difference; Rat (Avitsur, R. (773) 149)

Interleukin-6; Tumor necrosis factor α; Endotoxin; Influenza virus; Feeding; IL-1-receptor antagonist (Swiergiel, A.H. (776) 96)

Interleukin-6
Spinal cord injury; Secondary damage; Interleukin-1β; Tumor necrosis factor α; Macrophage invasion; Central nervous system (Klusman, I. (762) 173)

Interleukin-1β; Prenatal stress; Hypothalamic-pituitary-adrenal axis; Fever; Monkey (Reyes, T.M. (769) 29)

Interleukin-1; Tumor necrosis factor α; Endotoxin; Influenza virus; Feeding; IL-1-receptor antagonist (Swiergiel, A.H. (776) 96)

Alzheimer's disease; Human astrocytes; Interleukin-1β; Prostaglandin E_2 (Blom, M.A.A. (777) 210)

Alzheimer's disease; α_2M-R/LRP; α_2-Macroglobulin; Aβ; Senile plaque; Membrane alteration (Thal, D.R. (777) 223)

Interleukin-1β
Allodynia; Hyperalgesia; Tumor necrosis factor-α; Basic fibroblast growth factor; Neuroimmune activation; Transforming growth factor-β (DeLeo, J.A. (759) 50)

Anorexia; Brain; Cachexia; Cytokine; Food intake (Finck, B.N. (761) 333)

Spinal cord injury; Secondary damage; Interleukin-6; Tumor necrosis factor α; Macrophage invasion; Central nervous system (Klusman, I. (762) 173)

Synaptic inhibition; Pyramidal cell granule cell; Intracellular recording; Hippocampus; Slice preparation (Zeise, M.L. (768) 341)

Interleukin-6; Prenatal stress; Hypothalamic-pituitary-adrenal axis; Fever; Monkey (Reyes, T.M. (769) 29)

Alzheimer's disease; Human astrocytes; Interleukin-6; Prostaglandin E_2 (Blom, M.A.A. (777) 210)

Interleukin-1 receptor antagonist
Adenovirus vector; Gene transfer; Ischemia; Stroke (Yang, G.-Y. (751) 181)

Intermediate filament
Memory; Hippocampus; Inhibitory avoidance; Habituation; Phosphorylation (Schröder, N. (749) 275)

Nestin; Reactive astrocyte; Infarction; Ischemia; Cortex (Duggal, N. (768) 1)

Intermediate filament protein
Phosphorylation; 2-D polyacrylamide gel electrophoresis; Peptide mapping; Facilitation; Learning; Memory; Ca^{2+}-binding protein (Homayouni, R. (750) 87)

Intermediate stage
Sleep; Waking; GABA antagonist, type B; Theta rhythm; Spindle; Rat (Gauthier, P. (773) 8)

Intermediolateral cell column
Pituitary adenylate cyclase activating polypeptide; Substance P; Glutamate; Vasoactive intestinal polypeptide; Sympathetic preganglionic neuron (Lai, C.C. (748) 189)

Internal carotid artery
Arousal; Cerebral blood flow; Cutaneous blood flow; Ultrasound Doppler flowmeter (Yu, Y.-H. (767) 1)

Internal representation
Auditory cortex; Magnetoencephalography; Human; Brain; Omission (Raij, T. (745) 134)

Interneuron
Pericellular basket; Inhibition; Vertical organisation; Limbic cortex (Gabbott, P.L.A. (744) 179)

Antiopioid; Electrophysiology; γ-Aminobutyric acid; Opioid; Morphine-modulating peptide (Miller, K.K. (750) 81)

Dentate gyrus; Single unit; Population spike; Field potential (Kao, K. (752) 90)

GABA; VIP; Calretinin; Calbindin D28k; Colocalization (Kubota, Y. (752) 175)

Glutamate; γ-Aminobutyric acid (GABA); Glycine; Somatosensation; Ventrobasal thalamus (Popratiloff, A. (754) 333)

Opioid; Dorsal raphe; Periaqueductal gray; Serotonergic; GABA; Intracellular, brain slice (Jolas, T. (755) 229)

Caudate putamen; Spiny neuron; Intracellular calcium; Endoplasmic reticulum; Dendritic spine (Martone, M.E. (756) 9)

Potassium channel; Nonpyramidal cell; Channel rings; Parallel fiber; Immunofluorescence; Parvalbumin; Calbindin; Ultrastructural localization (Sekirnjak, C. (766) 173)

Dorsal octavolateralis nucleus; Elasmobranch; Electroreception; Noise suppression (Duman, C.H. (771) 80)

Interneuronal distance
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α-Internexin
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Interposed cerebellar nucleus
WGA-HRP; Eye movement; Cat; Cerebellum; Lateral cerebellar nucleus (Verveer, C. (766) 289)

Intersensory facilitation
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Interspike interval
Bursting activity; Autocorrelogram; Discharge pattern analysis; Extracellular recording (Martinson, J. (750) 129)

Intracellular
Inferior colliculus; Auditory system; Recording, in vivo (Pedemonte, M. (759) 24)

Intracellular, brain slice
Opioid; Dorsal raphe; Periaqueductal gray; Serotonergic; GABA; Interneuron (Jolas, T. (755) 229)

Intracellular Ca^{2+}
Medicinal leech; Extracellular K^+; Ca^{2+} channel; Polyvalent cation; Menthol (Dierkes, P.W. (746) 285)

Brain neuron; Glutathione; Kainate; Oxidative stress (Oyama, Y. (760) 277)

Intracellular [Ca^{2+}]
Cat and rat carotid bodies; Chemosensory discharge; Membrane potential; Na^+/Ca^{2+} exchanger (Roy, A. (769) 396)

Intracellular Ca^{2+} concentration
PTHrP; Hypothalamus; Colchicine; Immunohistochemistry; Rat (Tokunaga, M. (774) 216)

Intracellular calcium
Alzheimer's disease; Cell morphology; Chloride channel; Glia; Metal; Patch-clamp; Potassium channel (Jalonen, T.O. (746) 85)

GT1-1 cell; γ-Aminobutyric acid; Gonadotropin-releasing hormone (Sun, W. (747) 70)

Caudate putamen; Interneuron; Spiny neuron; Endoplasmic reticulum; Dendritic spine (Martone, M.E. (756) 9)

NMDA; *trans*-ACPD; KCl; Metabotropic; σ Ligand; Neuroprotection; Neuronal culture (Klette, K.L. (756) 231)

Calcium channel; Cultured astrocyte; 5-HT_{2A}; sK_{Ca} channel (Jalonen, T.O. (758) 69)

N-methyl-D-aspartate; Hippocampal slice; Intracellular pH; NMDA receptor; Glycolysis; Lactate (Zhan, R.-Z. (760) 179)

β-Amyloid; Alzheimer's disease; Cytotoxicity; Endothelial cell; Superoxide radical (Suo, Z. (762) 144)

Acetylcholine; Cerebellar granule cell; M_2 receptor; M_3 receptor; Transmitter release (Beani, L. (765) 91)

SN56 neuronal cell line; Tacrine; Calcium imaging; Calcium channels; Acetylcholinesterase; Neurons in culture (Doležal, V. (769) 219)

Apoptosis; Cell death; Cerebellar granule neuron; Mastoparan; Cholera toxin; Thapsigargin; Caffeine (Lin, S.-Z. (771) 184)

Alcohol; Purkinje neuron; Fura-2; Glutamate receptor; Metabotropic glutamate receptor; Ionotropic glutamate receptor (Gruol, D.L. (773) 82)

Intracellular calcium homeostasis
Plasma membrane; Calcium channel; Calcium-binding protein; Immunolocalization; Intracellular signaling (Stauffer, T.P. (748) 21)

Intracellular free calcium
Chronic intermittent ethanol (CIE); $^{36}Cl^-$ influx; Ro15-4513; MK-801; Kindling (Hu, X.-J. (767) 228)

Intracellular pH
Heat shock; Ethanol; Sodium; Potassium; Monensin; Membrane potential; Lactate; Glioma (Skrandies, S. (746) 220)

N-methyl-D-aspartate; Hippocampal slice; Intracellular calcium; NMDA receptor; Glycolysis; Lactate (Zhan, R.-Z. (760) 179)

CO; Extracellular pH; HEPES buffer; Hypoxia; Proton pump (Osanai, S. (764) 221)

Intracellular recording
L-Deprenyl; Monoamine oxidase type B (MAO-B) inhibitor; Hippocampal slice; Dopamine; Rat (Huang, C.-C. (753) 27)

Interleukin-1β; Synaptic inhibition; Pyramidal cell granule cell; Hippocampus; Slice preparation (Zeise, M.L. (768) 341)

Hippocampal slice; Benzodiazepine; Midazolam; Synaptic transmission; Rat (Sato, Y. (773) 98)

$GABA_A$ receptor; Non-NMDA receptor; NMDA receptor; Diagonal band of broca; Lateral preoptic area; Lateral hypothalamus (Yang, Q.Z. (773) 162)

Subiculum; Bursting cell; Regular firing cell; $GABA_A$; $GABA_B$; NMDA; AMPA; 5-HT (Behr, J. (773) 217)

Intracellular signaling
Intracellular calcium homeostasis; Plasma membrane; Calcium channel; Calcium-binding protein; Immunolocalization (Stauffer, T.P. (748) 21)

Intracellular staining
Pontine reticular formation; Potassium current; Biocytin; Carbachol; REM sleep (Núñez, A. (754) 1)

Intracerebellar
Motor impairment; Ethanol; Adenosine; cAMP; Mouse (Dar, M.S. (749) 263)

Intracerebral blood vessel
Muscarinic receptor; Confocal microscopy; Immunofluorescence; Endothelium; Smooth muscle (Badaut, J. (778) 25)

Intracerebral hemorrhage
Blood–brain barrier; Brain edema; Cathepsin G; Cerebral capillary; Elastase; Neutral protease; Plasmin (Armao, D. (767) 259)

Intracerebral microdialysis
Aging; Psychological stress; Hypothalamus; Noradrenaline (Wu, Y.L. (771) 347)

Intracerebroventricular
Arterial blood pressure; α_2-Adrenoceptor; Imidazoline receptor; H_2 histamine-like receptor; Ventrolateral medulla; Heart rate (Ally, A. (761) 283)

Intracerebroventricular administration, chronopharmacology
Circadian rhythm; Serotonin (5-HT) syndrome; Central 5-HT_{1A} receptor; 8-OH-DPAT (Nagayama, H. (756) 92)

Intracerebroventricular injection
Enterostatin; Vagus; Gastric emptying; High-fat diet; Non-nutrient liquid meal (Lin, L. (745) 205)

Intraischemic hypothermia
Transient global ischemia; Ischemic tolerance; Delayed neuronal death; Gerbil (Wada, K. (746) 301)

Intramediolateral cell column
D-Serine; D-Amino acid oxidase; NMDA-glycine site; Nucleus of the solitary tract; Ventrolateral medulla; Blood pressure regulation (Kapoor, R. (771) 351)

Intrastriatal injection
Naphthalenic compound; Melatonin agonist; Central-type benzodiazepine receptor; Flumazenil; Bicuculline; GABAergic mechanism (Tenn, C.C. (756) 293)

Intrathecal
Tolerance; Chronic pain; Allodynia; Opioid; Spinal cord (Yu, W. (756) 141)

Intrathecal administration
Antinociception; Substance P; *N*-methyl-D-aspartate; Naloxone; Opioid; Capsaicin; Spinal cord (Masuyama, T. (759) 241)

Intravenous self-administration
Extracellular recording; Single neuron; Nucleus accumbens; Subterritory; Shell; Core; Rat; Cocaine (Uzwiak, A.J. (767) 363)

Intraventricular nerves
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Inulin
Blood-brain barrier; Cerebral ischemia; Stroke; Transfer constants; Permeability-area product; Sucrose (Preston, E. (761) 4)

In utero
Mercury vapor Hg^0; Rat; Metallothionein; Brain; Astrocyte; Biomarker (Aschner, M. (778) 222)

Invertebrate
Alcohol; Membrane current; Snail; *Helix pomatia*; Protein kinase C; G-Protein (Kerschbaum, H.H. (765) 30)

Invertebrate ganglia
Morphine; Dopamine; Anandamide; Serotonin; Presynaptic release (Stefano, G.B. (763) 63)

Invertebrate photoreceptor
cGMP-activated K channel blocker; 4-Aminopyridine; *l-cis*-Diltiazem (Gotow, T. (745) 303)

In vitro
Basal forebrain; Broca; Diagonal band; Microwire; Rat; Sleep; Synaptic blockade; Thermoregulation; Thermosensitivity (Hays, T. (746) 52)

Lizard; *Christinus marmoratus*; Melatonin; Pineal organ; Circadian rhythm; Temperature (Moyer, R.W. (747) 230)

Long-term potentiation; Long-term depression; Cat; Sensorimotor cortex; NMDA receptor (Kitagawa, H. (751) 339)

Hippocampus; CA1 region; LTP; NMDA; Calcium channel (Pananceau, M. (752) 255)

Suprachiasmatic nuclei; Circadian system; Multiunit recording; In vivo; Neurophysiology; Photic; Nonphotic (Meijer, J.H. (753) 322)

Rat; Astrocyte; Ethanol; mRNA; Metallothionein; Hypotonic (Aschner, M. (770) 289)

Theta; GABAergic; Cholinergic (Konopacki, J. (775) 91)

Brainstem; Newborn rat; μ-Opioid receptor; δ-Opioid receptor; κ-Opioid receptor; Respiration (Takita, K. (778) 233)

In vitro $^{45}Ca^{2+}$ uptake
Electrical kindling; Epileptogenesis; Presynaptic glutamate receptor; Seizure; L-AP4; MPPG; In vitro [^{3}H]D-aspartate release (Abdul-Ghani, A.-S. (755) 202)

In vitro [^{3}H]D-aspartate release
Electrical kindling; Epileptogenesis; Presynaptic glutamate receptor; Seizure; L-AP4; MPPG; In vitro $^{45}Ca^{2+}$ uptake (Abdul-Ghani, A.-S. (755) 202)

In vitro ischemia
Glutamate; Brain slice; Na^+/K^+ ATP_{ase}; Na^+/glutamate transporter; Postischemic glutamate release potentiation (Calò, G. (751) 300)

In vivo
Suprachiasmatic nuclei; Circadian system; Multiunit recording; In vitro; Neurophysiology; Photic; Nonphotic (Meijer, J.H. (753) 322)

Glutamate metabotropic receptor; Long term potentiation; Paired pulse; Knock outs; Mouse (Bordi, F. (761) 121)

In vivo analysis
Endogenous 5-HT; Synaptic inhibition; Modulation (Lalley, P.M. (747) 156)

In vivo microdialysis
Choline acetyltransferase; Basal forebrain; Alzheimer's disease; Aging (Gibbs, R.B. (749) 143)

Ibogaine; Noribogaine; Morphine; κ-Opioid receptor; *N*-Methyl-D-aspartate receptor; Addiction; Drug self-administration (Glick, S.D. (749) 340)

Nitric oxide; Glial cell; Fluorocitrate; Cerebellum; Barrel rotation; Arginine; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

In vivo spinal release
Polyarthritis; Met-enkephalin; Dynorphin A 1–8; mRNA; Rat dorsal root ganglia (Pohl, M. (749) 18)

Inward K^+ conductance
Ba^{2+} modulation of etorphine effect; Ca^{2+} current; Dorsal root ganglion neuron; Dual opioid regulation of K^{2+} conductance; Patch-clamp whole-cell recording (Fan, S.-f. (754) 303)

Inwardly rectifying K^+ current
5-Hydroxytryptamine$_{1A}$ receptor; Dorsal raphe neuron; G protein; Nystatin perforated patch recording; Rat (Katayama, J. (745) 283)

Inward rectification
Adrenergic; Electrophysiology; Imidazoline; Neuromodulation; Respiration; Tongue; Voltage clamp (Parkis, M.A. (769) 108)

Inward rectifier K^+ channel
Weaver; Cell death; In situ hybridization; Immunohistochemistry (Lauritzen, I. (753) 8)

Inward rectifying K^+ channel
IRK1; GIRK1; Immunohistochemistry; Dendrite; Development (Miyashita, T. (750) 251)

Iodoantipyrine
Laser-Doppler flowmetry; Cerebral blood flow; CO_2 reactivity; 5-Hydroxytryptamine$_{1A}$ receptor (Bonvento, G. (767) 208)

Ion channel
Hypertonia; Osmotic effect; Cell volume; Perforated patch clamp; Whole-cell patch clamp; Voltage-gated current; Synaptic current; Excitatory postsynaptic current; Freshly isolated cell (Huang, R. (748) 157)

Lanthanum; Potassium current; Gating; *Xenopus*; Oocyte; Voltage-clamp (Tytgat, J. (749) 232)

Lead; Heavy metal; Nicotinic acetylcholine receptor; PC12 cell (Nagata, K. (754) 21)

Anticholinesterase; Neostigmine; Carbaryl; Nicotinic acetylcholine receptor; PC12 cell (Nagata, K. (769) 211)

Ion channel gating
Mechanoreceptor; Baroreceptor neuron; Nodose ganglion; Cytoskeletal actin (Cunningham, J.T. (757) 149)

Ion current
Neuronal nicotinic; Lead; Metal; Receptor; Neuroblastoma; Whole cell voltage clamp; Acetylcholine (Oortgiesen, M. (747) 1)

Medial preoptic nucleus; Whole-cell patch-clamp; Glutamate; NMDA; AMPA (Karlsson, U. (759) 270)

Medial preoptic nucleus; Whole-cell patch-clamp; GABA; Glycine; Ligand-gated ion channel (Karlsson, U. (770) 256)

Alzheimer's disease; Calcium; Free radical; Oxidative stress; Vascular amyloid (Mattson, M.P. (771) 147)

Ion homeostasis
Calcium; Calcium receptor; Calcium sensing receptor; Parathyroid; G protein coupled receptor; Receptor localization; Subfornical organ; Fluid homeostasis (Rogers, K.V. (744) 47)

Brain microvasculature; Drug delivery; Brain tumor; Drug development; Alternative testing; Cell culture; Neurodegenerative disorder (Stanness, K.A. (771) 329)

Ionophore
β-Amyloid peptide; hNT cell; Calcium current; Patch clamp; Differentiated NT2 cell; Alzheimer's disease (Sanderson, K.L. (744) 7)

Ionotropic
Spinal cord injury; Quisqualate; AMPA; NMDA (Liu, S. (756) 160)

Ionotropic glutamate receptor
Alcohol; Purkinje neuron; Intracellular calcium; Fura-2; Glutamate receptor; Metabotropic glutamate receptor (Gruol, D.L. (773) 82)

Ion-selective microelectrode
Epilepsy; Diffusion; Apparent diffusion coefficient; Interictal discharge; Cerebral cortex (Schwindt, W. (753) 86)

Ion-sensitive microelectrode
Sodium channel; Penumbra; Ischemia; Hippocampus; Neuroprotective drugs; Energy metabolism; Purine (Ashton, D. (745) 210)

Iontophoresis
Amphetamine; Dopamine; Glutamate; Neostriatum; Nucleus accumbens (Kiyatkin, E.A. (771) 14)

Ion transport
Choroid plexus; Cerebral edema (Javaheri, S. (754) 321)

Ipsapirone
Serotonin agonist; Serotonin antagonist; Locus coeruleus; Tandospirone; Noradrenaline (Hamamura, T. (759) 156)

IPTG
hNF-H; cdk5; Phosphorylation; SDS-PAGE (Pant, A.C. (765) 259)

[^{125}I]PYY
Neuropeptide Y; Zucker rats; Obesity; Receptor autoradiography; [^{125}I][Leu^{31},Pro^{34}]PYY; Y5 'feeding' receptor (Widdowson, P.S. (758) 17)

[^{125}I]PYY(3–36)
Neuropeptide Y; Y_5 receptor; Receptor autoradiography (Widdowson, P.S. (778) 242)

IRK1
Inward rectifying K^+ channel; GIRK1; Immunohistochemistry; Dendrite; Development (Miyashita, T. (750) 251)

Iron
Transferrin receptor; Substantia nigra; Ventral tegmental area; Parkinson's disease; Oxidative stress; Cell death; Autoradiography (Faucheux, B.A. (749) 170)

Cerebral ischemia; Lipid peroxidation; Cortex (Kondo, Y. (772) 37)

Iron chelator
Microdialysis; Dopamine release; 1-Methyl-4-phenylpyridinium; Substantia nigra; Rat (Matarredona, E.R. (773) 76)

Iron histochemistry
Plaque; Macrophage; Microglia; Demyelination; Oxidative damage (LeVine, S.M. (760) 298)

γ-Irradiation
Brain injury; Astrocyte proliferation; Autoradiography; Immunocytochemistry; GFAP; S100β (Janeczko, K. (770) 237)

Irregular orientation
VIP; NPY; Somatostatin; Cerebral cortex; Aged rat; Loss of neurons; Immunocytochemistry (Cha, C.I. (753) 235)

Irritable bowel syndrome
Norepinephrine; Electroencephalographic activity; $DPheCRF_{12-41}$; Kynurenic acid; Rat (Lechner, S.M. (756) 114)

Irritant
Spice; Black pepper; Chemosensitivity; Capsaicin; Proton; Synergy; Antagonist; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

[^{125}I]RTI-55 binding
Serotonin transporter; Raphe nuclei; Gene expression; In situ hybridization; Mice (Bengel, D. (778) 338)

[^{125}I]Sar^1–Ang II binding
Brain angiotensin system; [^{125}I]CGP 42112 binding; AT_1 receptor; AT_2 receptor; Immunocytochemistry (Jöhren, O. (757) 218)

Ischemia
Sodium channel; Penumbra; Hippocampus; Neuroprotective drugs; Ion-sensitive microelectrode; Energy metabolism; Purine (Ashton, D. (745) 210)

Global ischemia; Excitotoxicity; Excitatory amino acid; Heat shock protein; 6-Nitro-7-sulphamoylbenzo(f)quinoxaline-2-3-dione (NBQX) (Kawaguchi, K. (746) 59)

N-Methyl-D-aspartate; Glycine; Glutamate; Excitotoxicity; Microdialysis; Extracellular field (DC) potential (Obrenovitch, T.P. (746) 190)

Dopamine; Voltage-gated calcium channel; Striatum; ω-Conotoxin GVIA; Neomycin; ω-Agatoxin IVA (Toner, C.C. (748) 85)

Betaxolol; Neuroprotective agent; Retina (Osborne, N.N. (751) 113)

Adenovirus vector; Gene transfer; Interleukin-1 receptor antagonist; Stroke (Yang, G.-Y. (751) 181)

Gerbil; Clomethiazole; Neuroprotection (Liang, S.-P. (751) 189)

Cyclosporin A; Hyperglycemia; Brain damage; Mitochondria; Rat; Histopathology (Li, P.-A. (753) 133)

Ca^{2+} channel; Hippocampus; Confocal microscopy; Electrophysiology; Cell death (Small, D.L. (753) 209)

Oxidative damage; Evoked potential; Anoxia; Hippocampus (Pérez-Pinzón, M.A. (754) 163)

Organotypic slice culture; Hippocampus; Hypoxia; Glutamate (Pringle, A.K. (755) 36)

Melatonin; Retina culture; Kainate; 5-HT-accumulating neuron; GABAergic neuron (Cazevieille, C. (755) 91)

Hippocampus; Melatonin; Protection (Cho, S. (755) 335)

Nitric oxide; Nitric oxide synthase inhibition; Stroke; Behavior; Rat (Stagliano, N.E. (759) 32)

Organotypic hippocampal culture; Excitotoxicity; Neuron/glia interaction; Adenosine deaminase; Neuroprotection; NOS inhibitor (Barth, A. (762) 79)

Gene transfer; *lacZ* gene; Brain (Abe, K. (763) 191)

Astrocyte; Brain; Glial fibrillary acidic protein; Microglia; 5'-Nucleotidase; OX42 (Braun, N. (766) 213)

Hypoxia; Free radical; Adenosine; Hippocampus (Fowler, J.C. (766) 255)

Nestin; Intermediate filament; Reactive astrocyte; Infarction; Cortex (Duggal, N. (768) 1)

Aging; Preprotachykinin; Preproenkephalin; Striatum; Polymerase chain reaction (Tohgi, H. (768) 86)

Melatonin; Neuroprotection; NMDA; Cortical cultures (Cazevieille, C. (768) 120)

Glutamate receptor; Amino acid release; Energy level; Retina cell damage (Ferreira, I.L. (768) 157)

Glucose deprivation; Neural activity; Calcium ion; Hippocampus; Developing brain (Nabetani, M. (769) 158)

Mitochondria; Cytochrome *c* oxidase; Pyruvate dehydrogenase complex; Neuronal death; Selective vulnerability (Zaidan, E. (772) 23)

Autoradiography; Mouse; Middle cerebral artery; Nitric oxide synthase; Protein kinase C; Substantia nigra (Hara, H. (774) 69)

GDNF; Rat; Middle cerebral artery (Abe, K. (776) 230)

Ischemia / reperfusion
Cerebral cortex; Volume regulation; Anion transport; Chloride channel; Dipyridamole; SITS; NPPB (Phillis, J.W. (758) 9)

Ischemic neuronal damage
Cytokine-induced neutrophil chemoattractant; Focal cerebral ischemia; Neutrophil; Rat (Yamasaki, Y. (759) 103)

Ischemic neuropathy
Reperfusion injury; Peripheral nerve; Carbonyl formation; α-Tocopherol; Endoneurial vessels (Anderson, G.M. (772) 156)

Ischemic preconditioning
Cerebral ischemia; Behaviour; CA1; Neuroprotection (Corbett, D. (760) 129)

Ischemic tolerance
Energy metabolism; Pyruvate dehydrogenase; Gerbil (Katayama, Y. (746) 126)

Transient global ischemia; Intraischemic hypothermia; Delayed neuronal death; Gerbil (Wada, K. (746) 301)

Isoaspartate β-amyloid
Diffuse plaque; Plaque type; Aging; Alzheimer's; Animal model; Beagle dog lifespan (Satou, T. (774) 35)

Isoflurane
Anesthetic; Halothane; Anoxia-aglycemia; Anoxia; Hippocampal slice (Raley-Susman, K.M. (755) 1)

Astrocyte; Glia; Patch-clamp; Neocortex; Volatile anaesthetic; Enflurane; Halothane (Felisberti, F. (766) 56)

α Isoform
Na^+,K^+-ATPase; Ouabain site; Ouabain affinity; Focal cerebral ischaemia (Jamme, I. (774) 123)

Isoforms, α and β
Ca^{2+}/calmodulin-dependent protein kinase II; Protein kinase C; Neurite outgrowth; Neuroblastoma; Protein kinase inhibitor (Nomura, T. (766) 129)

Isoguvacine
Arterial blood pressure; Heart rate; Receptor autoradiography; Flumazenil; Benzodiazepine; Medulla (Barron, K.W. (773) 53)

Isolation-rearing
Noradrenaline; α_2-Adrenoceptor; Clonidine; Idazoxan; Hippocampus; Hypothalamus; Rat (Fulford, A.J. (748) 93)

Isozyme
Protein kinase C; Streptozotocin; Diabetic neuropathy (Roberts, R.E. (754) 147)

J

Jaw-opening reflex (JOR)
Tooth-pulp; Opioid; Transcranial electrical stimulation (TCES); Fentanyl; Rat (Alantar, A. (763) 14)

Jugular ganglion
Calbindin D-28k; Immunohistochemistry; Nodose ganglion; Parvalbumin; Petrosal ganglion; S100; Vagal afferent neuron (Ichikawa, H. (768) 349)

Jun
Dexamethasone; Fos; Glucocorticoid; Hypothalamus; Immunocytochemistry; Preoptic area (Briski, K.P. (768) 185)

c-Jun
Axotomy; Dorsal root ganglion; Immunoblotting (Kenney, A.M. (751) 90)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); c-Fos; Apoptosis; Dopaminergic neuron; Parkinson's disease (Nishi, K. (771) 133)

Acetic acid; 1-Butanol; Olfactory bulb; Periglomerular cell; Mitral cell; Tufted cell; Granule cell (Baba, K. (774) 142)

JunB
c-Fos; Dorsal cochlear nucleus; Ventral cochlear nucleus; Inferior colliculus; Deprivation; Repetitive stimulation (Keilmann, A. (753) 291)

Junco
Naloxone; Quaternary naloxone; Opioid; Mu receptor; Delta receptor; DAMGO; DPDPE (Deviche, P. (757) 276)

Jun-D
Transcription factor; Fra; Hippocampus; Kainic acid; Seizure; AP-1 (Feng, Z. (770) 53)

K

Kainate
Magnetic resonance spectroscopic imaging; Diffusion-weighted imaging; *N*-Acetylaspartate; Creatine; Choline; Rat brain; Epilepsy (Tokumitsu, T. (744) 57)

Seizure; Excitotoxicity; Deep prepiriform cortex; Hippocampus (Kawaguchi, K. (753) 152)

Melatonin; Retina culture; Ischaemia; 5-HT-accumulating neuron; GABAergic neuron (Cazevieille, C. (755) 91)

Brain neuron; Glutathione; Intracellular Ca^{2+}; Oxidative stress (Oyama, Y. (760) 277)

Noradrenaline; Locus coeruleus; Prefrontal cortex; NMDA; Carbachol; Clonidine; Microdialysis (Van Gaalen, M. (763) 56)

Glutamate receptor; Basal ganglia; In situ hybridization (Wüllner, U. (768) 215)

Immunocytochemistry; *N*-Methyl-D-aspartate; AMPA (Kohama, S.G. (769) 44)

Kainic acid
Furosemide; Mannitol; Osmolality; Seizure; Diuretics (Stringer, J.L. (745) 328)

Acetylcholine release; Morphine; Olfactory tubercle; Caudate-putamen; Ventral striatum; Dorsal striatum; Dopamine; Serotonin (Guevara, B.H. (749) 139)

bFGF; FGR-3; Astrocyte; Microglia (Ballabriga, J. (752) 315)

Aging; D_1 and D_2 dopamine receptors (Zhang, L. (763) 264)

Neuroimmune; Lipopolysaccharide; Zymosan; Astrocyte; Microglia; Spleen (Charlton, M.E. (764) 141)

Glial fibrillary acidic protein; Vimentin; Protein phosphorylation; Neurotoxicity; Excitatory amino acid; Gliosis; Astrocyte (Lenz, G. (764) 188)

Transcription factor; Fra; Jun-D; Hippocampus; Seizure; AP-1 (Feng, Z. (770) 53)

1*S*,3*R*-ACPD; Quinolinic acid; NMDA receptor; Apoptosis; Excitotoxicity; Neurodegeneration (Wang, Y. (772) 45)

Status epilepticus; Neuronal migration disorder; Immunohistochemistry (Germano, I.M. (777) 219)

Male sexual behavior; Glutamate receptors; Acute treatment; Dose-dependent effect (Drago, F. (778) 135)

Kainic acid receptor
Gene expression; Glutamate receptor; Human brain; Hybridization, in situ; Messenger RNA; Schizophrenia (Porter, R.H.P. (751) 217)

Kallikrein
Tonin; Angiotensinase; Angiotensin II; Rat brain (Lopes, E.S. (769) 152)

Kaolin-induced hydrocephalus
Mechanical distortion; Basal ganglia; Acetylcholine; GABA; Dopamine; Immunohistochemistry (Tashiro, Y. (770) 45)

K_{ATP} channel
Troglitazone; Ventromedial hypothalamus (Lee, K. (751) 165)

K^+ channel
TEA; 4-AP (Müller, M. (769) 245)

Tetrahydroberberine; K^+ current; Hippocampus; Dissociated neuron; Patch clamp (Wu, J. (775) 214)

K_{IR} channel
Weaver; Thalamus; Substantia nigra; Cerebellum; In situ hybridization (Chen, S.-C. (778) 251)

sK_{Ca} channel
Calcium channel; Cultured astrocyte; 5-HT_{2A}; Intracellular calcium (Jalonen, T.O. (758) 69)

K_{ATP} channel
Excitotoxicity; Cyanide; Glutamate; Neuroprotection; Tolbutamide (Wind, T. (751) 295)

KCl
NMDA; *trans*-ACPD; Metabotropic; Intracellular calcium; σ Ligand; Neuroprotection; Neuronal culture (Klette, K.L. (756) 231)

KCl stimulation
Synaptic vesicle; Quantal release; Morphometry; Exocytosis; Endocytosis; Vesicle hypothesis; Acetylcholine; *Torpedo* electric organ; Sucrose stimulation (Fox, G.Q. (755) 47)

K^+ current
Tetrahydroberberine; K^+ channel; Hippocampus; Dissociated neuron; Patch clamp (Wu, J. (775) 214)

FMRFamide; Dopamine; Neuropeptide; Neuron; Mollusc (Van Tol-Steye, H. (777) 119)

Ketamine
Dopamine; γ-Aminobutyric acid (GABA); 5-Hydroxyindoleacetic acid (5-HIAA); Microdialysis; Prefrontal cortex (Lindefors, N. (759) 205)

Ketanserin
Epilepsy; Serotonin; Receptor subtype; Kindling; Seizure; 8-OH-DPAT; DOI (Wada, Y. (747) 338)

Kidney
Sympathetic nervous system; Osmoregulation; Visceral receptor; Autonomic nervous system; Circumventricular organ; Limbic system; Cardiovascular regulation (Solano-Flores, L.P. (753) 102)

Sympathetic afferent; Spinal cord; Immediate early gene; Renorenal reflex; Visceral pain (Fitch, G.K. (753) 340)

Visceroception; Posterior complex; Ventral posterolateral nucleus; Viscera (Horn, A.C. (763) 47)

Kindling
ADP-ribosylation; Epilepsy; Hippocampus; Nitric oxide; Antiepileptic drug; Glyceraldehyde-3-phosphate dehydrogenase (Suzuki, K. (745) 109)

Corticotropin-releasing factor; CRF-binding protein; Hippocampus; Co-expression; Neuropeptide Y; Cholecystokinin (Smith, M.A. (745) 248)

Epilepsy; Serotonin; Receptor subtype; Seizure; 8-OH-DPAT; DOI; Ketanserin (Wada, Y. (747) 338)

Acetylcholine release; Muscarinic receptor; Hippocampus; Microdialysis; Pentylenetetrazol (Serra, M. (751) 175)

Seizure; 2-Chloroadenosine; Caffeine; Amygdala; Hippocampus (Pourgholami, M.H. (751) 259)

Chronic epilepsy; Spontaneous seizure; Prolonged postictal convulsive state; Dominant focus; Mossy fiber sprouting (Timofeeva, O.A. (754) 227)

Serotonin; 5-HT_3 receptor; 1-(*m*-Chlorophenyl)-biguanide; Epilepsy; Seizure; Amygdala; Rat (Wada, Y. (759) 313)

Rat; Pentylenetetrazol; Long-term potentiation; Glutamate binding; Strain difference; Epilepsy (Becker, A. (763) 87)

Chronic intermittent ethanol (CIE); Intracellular free calcium; $^{36}Cl^-$ influx; Ro15-4513; MK-801 (Hu, X.-J. (767) 228)

Seizure activity; Seizure pattern; Ictal behavior; Cortical stimulation (Della Paschoa, O.E. (770) 221)

Epilepsy; Transfer; Atropine; Muscarinic; Acetylcholine; Amygdala; Perirhinal cortex (Buchanan, J.-A.M. (771) 63)

Epilepsy; Transfer; Amygdala; Perirhinal cortex; Frontal cortex (Buchanan, J.-A.M. (771) 71)

Amygdala; Seizure; 2-Chloroadenosine; Caffeine; Adenosine A_1 receptor (Pourgholami, M.H. (775) 37)

Long-term potentiation; Hippocampus; Mossy fiber; Sprouting; Plasticity (Adams, B. (775) 193)

Dentate gyrus; Hippocampus; Low-frequency stimulation; Paired-pulse depression; Seizure; Perforant path (Emori, K. (776) 250)

Kindling-induced plasticity
Hippocampal CA1; Pentylenetetrazol; Field potentials (Fathollahi, Y. (758) 92)

Kinesthetic receptor
Ia; Presynaptic (Brooke, J.D. (766) 236)

Kinetics
Positron emission tomography; 6-[^{18}F]Fluoro-L-*m*-tyrosine; Dopamine; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey; 6-[^{18}F]Fluoro-L-DOPA (Jordan, S. (750) 264)

Alcohol; Cell cycle; Fetal alcohol syndrome; Growth factor; Neuroblastoma; Proliferation; Receptor (Luo, J. (770) 139)

KN-6
Amygdala; Inhibitory avoidance task; Excitatory synapse; Calcium/calmodulin-dependent protein kinase II (Tan, S.-E. (748) 227)

μ-Knockout
Transgenic mouse; *MOR* gene; Opioid receptor; Receptor, μ-, δ-, κ_1- and κ-; Autoradiography; Opioid receptor mapping; Gene deletion (Kitchen, I. (778) 73)

Knockout mouse
Methamphetamine; Neurotoxicity; p53; Serotonin transporter (Hirata, H. (768) 345)

Knock-out mutant
Mouse; Myelin; Myelin-associated glycoprotein; Oligodendrocyte; Optic nerve (Bartsch, S. (762) 231)

Knock outs
Glutamate metabotropic receptor; Long term potentiation; Paired pulse; Mouse; In vivo (Bordi, F. (761) 121)

Kölliker-Fuse nucleus
Parabrachial nucleus; Thalamus; Spinal cord; Axon collateral; Pain; Retrograde labeling; Rat (Li, J.-L. (745) 321)

κ opiate
Sex difference; Predator-induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induction; Analgesia (Kavaliers, M. (768) 30)

κ-opioid receptor
Medial preoptic area; Luteinizing hormone surge; Norepinephrine; Push–pull perfusion; Nor-binaltorphimine (Smith, M.J. (768) 111)

Krypton laser
Stroke; Focal cerebral ischemia; Photothrombosis; Rose bengal; Excitotoxicity (Yao, H. (753) 80)

Kunitz-type protease inhibitor domain
Glucose deprivation; Amyloid mRNA; RT-PCR (Shi, J. (772) 247)

Kunming mouse
Excitatory amino acid; Excitotoxicity; Late stage of pregnancy; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Spatial learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Kv2.1
Potassium channel; Antipsychotic agent; Fluspirilene; Human (Wible, B. (761) 42)

Kynurenic acid
Norepinephrine; Electroencephalographic activity; $DPheCRF_{12-41}$; Rat; Irritable bowel syndrome (Lechner, S.M. (756) 114)

Spreading depression; Probenecid; Microdialysis; *N*-Methyl-D-aspartate; DC potential; Organic anion transport; Lactate (Taylor, D.L. (764) 117)

Kynurenine
Alzheimer's disease; Tryptophan; NGF; Astrocyte (Dong-Ryul, L. (777) 228)

L

L-365,260
Cholecystokinin; Conditioned activity; Locomotion; Devazepide; PD-140548; Cocaine; Reward-related learning; Nucleus accumbens (Josselyn, S.A. (763) 93)

Lacrimal gland
Electrical field stimulation; Vasoactive intestinal polypeptide; Neuropeptide Y; Protein secretion; Pig (Adeghate, E.A. (758) 127)

Lactacidosis
Cell swelling; C6 glioma; α-Trinositol; Glutamate (Staub, F. (766) 285)

Lactate
Glucose; Cerebral energy metabolism; Glycolysis; 2-Deoxy-D-glucose; Hypoxia; Hippocampal slice (Schurr, A. (744) 105)

Heat shock; Ethanol; Intracellular pH; Sodium; Potassium; Monensin; Membrane potential; Glioma (Skrandies, S. (746) 220)

Cerebral blood flow; Enzyme electrode; Hypoxia; Laser Doppler flowmeter; Nucleus tractus solitarii; Rat (Ikegami, Y. (758) 33)

N-methyl-D-aspartate; Hippocampal slice; Intracellular pH; Intracellular calcium; NMDA receptor; Glycolysis (Zhan, R.-Z. (760) 179)

Spreading depression; Probenecid; Microdialysis; *N*-Methyl-D-aspartate; DC potential; Organic anion transport; Kynurenic acid (Taylor, D.L. (764) 117)

Hypoxia; Synaptic function; Glial–neuronal shuttle; Fluorocitrate; Hippocampal slice (Schurr, A. (774) 221)

Lactate dehydrogenase
Bromodeoxyuridine; C6 glioma cell; Calcein-am; Dystrophic retina; Ethidium homodimer; Gliastatin 2; Microglial cell; Müller cell; Retinal glia (Rosales, A.A. (748) 195)

Lactate production
β-Amyloid; Estradiol; Lipid peroxidation; Glucose utilization; SK-N-SH neuroblastoma cell (Gridley, K.E. (778) 158)

Lactation
$GABA_A$ receptor; Central-type benzodiazepine receptor; Peripheral-type benzodiazepine receptor; Pregnancy; Progesterone; Prolactin (Weizman, R. (752) 307)

Food restriction; Reproductive function; Neuropeptide Y (Abizaid, A. (761) 306)

Opioid; Naltrexone; Opioid mRNA; Arcuate nucleus; Pituitary; Rat (Kim, E.-M. (769) 303)

NGFI-B; c-*fos*; Rat; Stress; Paraventricular nucleus; Lateral septum; Amygdala (Da Costa, A.P.C. (770) 151)

Lactic acid
Astrocyte; Cell swelling; Glutamate uptake; Glutamate release; Hypothermia; Potassium ion release (Bender, A.S. (750) 59)

Epiphysis cerebri; Glycogen; Norepinephrine; Adrenoceptor; Desensitization (Eugenín, E.A. (760) 34)

Lamina intercalaris
Pineal gland; Superior cervical ganglion; Ganglionectomy; Deep pineal; Intergeniculate leaflet (Bartol, I. (744) 77)

Lamina X
Central sensitization; Fos; Morphine tolerance; Rat; Sacral parasympathetic; Withdrawal (Rohde, D.S. (745) 83)

Laminin
Heparan sulphate proteoglycan; Collagen; Fibronectin; Murine (Coulson, E.J. (770) 72)

Lampetra fluviatilis
Forebrain; Basal ganglia; Telencephalon; Fluorescent tracer; Immunohistochemistry (Pombal, M.A. (766) 249)

Lamprey
Reticular formation; Fictive locomotion; Electrical stimulation; NMDA; Central pattern generator (Guertin, P. (753) 328)

Lanthanum
Potassium current; Gating; Ion channel; *Xenopus*; Oocyte; Voltage-clamp (Tytgat, J. (749) 232)

L1 antigen
Neural cell adhesion molecule; Contactin; Cell recognition molecule; Cerebrospinal fluid; Schizophrenia (Poltorak, M. (751) 152)

Laser confocal microscopy
Embolus; Focal cerebral ischemia; Rat; MRI (Zhang, R.L. (766) 83)

Laser Doppler
Cortical spreading depression; Coupling; Glucose; Cytochrome *aa3*; Hemoglobin; Hypercapnia; Near-infrared spectroscopy; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Laser Doppler flowmeter
Cerebral blood flow; Enzyme electrode; Hypoxia; Lactate; Nucleus tractus solitarii; Rat (Ikegami, Y. (758) 33)

Laser Doppler flowmetry
Cerebral ischemia; Stroke; Middle cerebral artery; Cerebral blood flow; Rat (Soriano, M.A. (747) 273)

Mouse; Cerebral ischemia; Neuronal death; Brain vasculature; Hypothermia (Yang, G. (752) 209)

Cerebral blood flow; Iodoantipyrine; CO_2 reactivity; 5-Hydroxytryptamine$_{1A}$ receptor (Bonvento, G. (767) 208)

Laser scan microscopy
Apolipoprotein E; Amyloid β-protein; Senile plaque; Alzheimer's disease (Nishiyama, E. (750) 20)

Late-onset: sporadic
Alzheimer's disease; Apolipoprotein E; Aβ1–40 (Ishii, K. (748) 250)

Lateral cerebellar nucleus
WGA-HRP; Eye movement; Cat; Cerebellum; Interposed cerebellar nucleus (Verveer, C. (766) 289)

Lateral geniculate nucleus
Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Serotonin (5-HT); Fast cyclic voltammetry; Electrical stimulation; 5-HT$_{1B}$; 5-HT$_{1D}$; 5-HT uptake; Paroxetine (Davidson, C. (760) 238)

Blink; Blink suppression; Thalamic reticular nucleus (Lo, F.-S. (767) 176)

Lateral habenula
Amphetamine; Fos; Sensitization (Hamamura, T. (767) 140)

Lateral hypothalamic area
Zona incerta; Periaqueductal gray matter; True blue; Retrograde tracers; Melanin-concentrating hormone; Neuropeptide EI (Elias, C.F. (755) 255)

Retinohypothalamic tract; Retinal ganglion cell; Hypothalamus; FluoroGold; Suprachiasmatic nucleus; Circadian rhythm (Leak, R.K. (770) 105)

Lateral hypothalamus
Drinking; Acetylcholine; Atropine; Streptozotocin; Diabetes mellitus (Murzi, E. (752) 184)

$GABA_A$ receptor; Non-NMDA receptor; NMDA receptor; Intracellular recording; Diagonal band of broca; Lateral preoptic area (Yang, Q.Z. (773) 162)

Lateralis medialis-suprageniculate nuclear complex
Thalamus; Pedunculopontine tegmental nucleus; Choline acetyltransferase; GABA; Glutamate; Cat (Hoshino, K. (747) 151)

Lateralization
Mouse; Paw preference; Restraint; Corticosterone (Neveu, P.J. (749) 344)

Alcohol; Asymmetry; *Anolis carolinensis*; *Anolis*; Aggression (Deckel, A.W. (756) 96)

Baroreceptor-related neuron; Extracellular recording; Insular cortex; Rat (Zhang, Z. (760) 243)

Lateral perforant path
Hippocampus; Rat; Metabotropic glutamate receptor; Medial perforant path; (1*S*,3*R*)-1-Aminocyclopentane-1,3-dicarboxylic acid; L(+)-2-Amino-4-phosphonobutyric acid; 'Paired-pulse' plasticity (Dietrich, D. (767) 220)

Lateral preoptic area
$GABA_A$ receptor; Non-NMDA receptor; NMDA receptor; Intracellular recording; Diagonal band of broca; Lateral hypothalamus (Yang, Q.Z. (773) 162)

Lateral septum
Vasopressin; Social recognition; Object recognition; V1-receptor; Habituation; Rat (Everts, H.G.J. (760) 1)

Monogamy; Aggression; Amygdala (Wang, Z. (767) 321)

Stria terminalis; Amygdala; Hypothalamus (Wang, Z. (768) 147)

NGFI-B; c-*fos*; Rat; Lactation; Stress; Paraventricular nucleus; Amygdala (Da Costa, A.P.C. (770) 151)

Calcium current; Brain slice; G protein; Metabotropic glutamate receptor; Non-selective channel; Sodium current (Raggenbass, M. (776) 75)

Lateral tegmental field
Cardiopulmonary vagal reflex; Blood pressure; Sympathetic nerve activity; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Raphe nuclei; Nucleus tractus solitarii (Vayssettes-Courchay, C. (744) 272)

Late stage of pregnancy
Excitatory amino acid; Kunming mouse; Excitotoxicity; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Spatial learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Lazaroid
β-Amyloid; Oxidative stress; Cortical cell (Lucca, E. (764) 293)

LC132 receptor
Orphanin FQ; Nociceptin; Guinea pig ileum; Mouse vas deferens; Naloxone; Dynorphin A(1–13)NH_2; [D-Pen^2,D-Pen^5]Enkephalin (Zhang, G. (772) 102)

LDL
Oxidized LDL; CNS neuron; Oxidation response; Neurotoxicity; Apoptosis; Scavenger receptor (Sugawa, M. (761) 165)

Lead
Neuronal nicotinic; Metal; Receptor; Neuroblastoma; Ion current; Whole cell voltage clamp; Acetylcholine (Oortgiesen, M. (747) 1)

Heavy metal; Nicotinic acetylcholine receptor; Ion channel; PC12 cell (Nagata, K. (754) 21)

Learned bilateral blinking
Blink onset; Side superiority; Bilateral coupling; Temporal bilateral coordination; Cat (Spidalieri, G. (746) 34)

Blink onset; Side superiority; Bilateral coupling; Temporal bilateral coordination; Corpus callosum; Split-brain; Cat (Spidalieri, G. (770) 30)

Learning
Memory; Instrumental; Conditioning; Neuron; Excitability (Tsitolovsky, L.E. (745) 271)

Gastrointestinal; Immediate early gene; Memory; Gene expression; Axotomy (Houpt, T.A. (747) 85)

Plasticity; Stress; Immunohistochemistry; Gene expression; Hearing deficit; Novel sound stimulation (Hillman, D.E. (748) 77)

Colchicine; Memory; Glutamate; GABA; $GABA_B$ receptor; $GABA_B$ receptor antagonist; Alzheimer's disease (Yu, Z.F. (750) 53)

Phosphorylation; 2-D polyacrylamide gel electrophoresis; Peptide mapping; Facilitation; Memory; Intermediate filament protein; Ca^{2+}-binding protein (Homayouni, R. (750) 87)

Adrenal steroid; Aldosterone; Type I receptor; Type II receptor; Spatial recognition memory; Discrimination memory (Conrad, C.D. (759) 76)

Cortical plasticity; Magnetoencephalography (MEG); Magnetic source imaging (MSI); Auditory discrimination; Primary auditory cortex; Association auditory cortex (Cansino, S. (764) 53)

Hypothalamus; Hippocampus; Theta; Water maze; Benzodiazepine (Pan, W.-X. (764) 101)

Frontal cortex; Medial prefrontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Reversal; Conditioned emotional response; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

Diazepam; Benzodiazepine; Chronic treatment; Postnatal exposure; Memory; Anxiety; Cerebral glucose utilization (Schroeder, H. (766) 142)

Memory; Glucocorticoid; Corticosterone; Metyrapone; Aminoglutethimide; Passive avoidance; Chick (Loscertales, M. (769) 357)

Cerebral ischemia; Lisuride; Dopamine D_2 agonist; Aminergic neurotransmitter; Memory (Caldwell, M.A. (771) 305)

Learning acquisition
Cortical contusion; Diffuse axonal injury; Memory retention; Water maze; Hippocampus; Entorhinal cortex (Yamaki, T. (752) 151)

Learning and memory
Postsynaptic protein; Protein kinase C substrate; Synaptic plasticity; Hippocampus; Calmodulin (Chen, S.-J. (749) 181)

Serotonin; Synaptogenesis; S-100β; Parachlorophenylalanine; Schizophrenia; Hippocampus (Mazer, C. (760) 68)

Head injury; Hippocampus; Morris water maze; Rat (Bramlett, H.M. (762) 195)

Morris water maze; Passive avoidance; Spontaneously hypertensive rat; Nicotinic acetylcholine receptor; Rubidium efflux; Vesicular acetylcholine transporter; Autoradiography (Gattu, M. (771) 89)

Spontaneously hypertensive rat; Nicotinic receptor; Water maze; Passive avoidance; Autoradiography; Rubidium efflux (Gattu, M. (771) 104)

Learning impairment
Neuropsin; Serine protease; Avoidance; Hippocampus; Oxidative stress; Diethyldithiocarbamate (Akita, H. (769) 86)

Lectin
Athymic; BALB/c; Mice; Microglia; Mac-1; Thymosin α1; Cortisol (Htain, W.-W. (755) 63)

Amphibians; *Pipa*; Olfactory system; Accessory olfactory system; NADPH-diaphorase; Soybean agglutinin (Meyer, D.L. (762) 275)

Lectin histochemistry
Neuroglia; Hypomyelination; Immunohistochemistry; Double staining (Vela, J.M. (767) 345)

Leech
Central nervous system; Cannabinoid; Anandamide; Nitric oxide (Stefano, G.B. (753) 219)

Prokekephalin A; Mussel; Opioid binding; δ_2 opioid receptor; Met-enkephalin (Salzet, M. (768) 224)

Leg movement
Epilepsy; Maximal electroshock; Hindlimb extension; Locomotor activity (Niemi-Junkola, U. (778) 401)

Leptomeningeal
Transplantation; Fibroblast; Amyloid; Uptake; Amyloid precursor protein; Human specific (DeGiorgio, L.A. (752) 35)

Leptomeninges
Melatonin; Melatonin receptor; Arachnoid; Pia mater; Human fetus (Drew, J.E. (761) 87)

Lesion
Merosin; Synapse; Synaptogenesis; Basement membrane; Hippocampus; Brain; Regeneration; Rat; Rabbit; Pig (Tian, M. (764) 28)

Leukemia inhibitory factor
Transforming growth factor-β1; Schwann cell; Neurotrophic factor; DRG neuron; Sciatic nerve; Nerve regeneration (Matsuoka, I. (776) 170)

Norepinephrine transporter; Tyrosine hydroxylase; Ciliary neurotrophic factor; Retinoic acid; Superior cervical ganglia; PC12 cell (Matsuoka, I. (776) 181)

Leukocyte
Alzheimer's disease; Protein kinase C; Calcium; Platelet; Brain (Lanius, R.A. (764) 75)

***N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y_{24-36}**
Nerve injury; Hyperalgesia; Nociceptive flexion reflex; Neuropeptide Y; [Leu^{31},Pro^{34}]-neuropeptide Y; α-Trinositol (White, D.M. (750) 141)

Leupeptin
Protease inhibitor; Lipofuscin; Degenerated neuron and process; Dentate gyrus; Hippocampus; Memory; Step-down passive avoidance task (Arai, T. (754) 157)

[Leu^{31},Pro^{34}]-neuropeptide Y
Nerve injury; Hyperalgesia; Nociceptive flexion reflex; Neuropeptide Y; *N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y_{24-36}; α-Trinositol (White, D.M. (750) 141)

[Leu^{31},Pro^{34}]NPY
Ageing; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Neuropeptide Y; Noradrenaline (Hastings, J.A. (750) 301)

Lewis rat
Forced swimming test; Brown-Norway rat; Fisher 344 rat; Spontaneously hypertensive rat; Wistar-Kyoto rat; Corticotropin-releasing factor; Depression (Lahmame, A. (750) 285)

Lewy body
Apoptosis; In situ end labeling; Parkinson's disease; Diffuse Lewy body disease; Neurodegeneration; Substantia nigra (Tompkins, M.M. (775) 24)

LHRH mRNA
GnRH; GnRH mRNA; Estrous cyclicity; Age-related; Hypothalamus; Digoxigenin; In situ hybridization (Rubin, B.S. (770) 267)

Lidocaine
Cocaine; Local anesthetic; Seizure; Dextromethorphan; 6,7-Dinitroquinoxaline-2,3-dione; NMDA (Barat, S.A. (756) 179)

Brain injury; Convulsion; Local anaesthetic; Survival rate; Mouse (Endoh, H. (767) 136)

Phenylephrine; Sodium nitroprusside; Parasympathetic; Sympathetic; Baroreflex sensitivity (Saleh, T.M. (767) 201)

QX-314; Dorsal root ganglia; Dorsal horn; Neuroma; Vagus nerve; Heart rate; Blood pressure; Pain; Local anesthetic; Na^+ channel blocker (Omana-Zapata, I. (771) 228)

Cocaine; Convulsion; Spermidine; *N*-Methyl-D-aspartate receptor (Shimosato, K. (775) 198)

σ Ligand
NMDA; *trans*-ACPD; KCl; Metabotropic; Intracellular calcium; Neuroprotection; Neuronal culture (Klette, K.L. (756) 231)

Ligand-gated ion channel
Medial preoptic nucleus; Whole-cell patch-clamp; Ion current; GABA; Glycine (Karlsson, U. (770) 256)

Light
c-*fos*; *jun*-B; Aging; Circadian rhythm (Benloucif, S. (747) 34)

Hypothalamus; Suprachiasmatic nucleus; Paraventricular nucleus; Vasoactive intestinal polypeptide; Spinal cord; Melatonin (Teclemariam-Mesbah, R. (748) 71)

5-HT_7; 5-HT_{1A}; Agonist; Antagonist; Serotonin; Suprachiasmatic nucleus; Hippocampus; Cerebellum; Entrainment; Photic response (Ying, S.-W. (755) 246)

Light / dark apparatus
Chromosome; Open field; Mapping; [^{3}H]Ro 15-1788 (Clément, Y. (752) 127)

Light microscopy
AMPA-type glutamate receptor; Striatal GABAergic interneuron; Basal ganglia; Double immunocytochemistry; Immunofluorescence (Kwok, K.H.H. (778) 43)

Limbal epithelium
Corneal epithelium; Conjunctival epithelium; Proliferation; Opioid; Naltrexone; [Met^5]-enkephalin; Cell renewal; Eye (Zagon, I.S. (759) 92)

Limbic
Peptide YY; Neuropeptide Y; Receptor; Pancreas; Brainstem; Hypothalamus; Vagus; Rat (Whitcomb, D.C. (760) 137)

Basement membrane; Blood vessel; Central nervous system; Extracellular matrix; Hippocampus; Synapse; Tanycyte (Hagg, T. (764) 17)

Limbic cortex
Interneurone; Pericellular basket; Inhibition; Vertical organisation (Gabbott, P.L.A. (744) 179)

Cingulate cortex; D,L-Homocysteic acid; Autonomic nervous system (Fisk, G.D. (754) 204)

Limbic epilepsy
Corticotropin releasing factor; Corticotropin releasing factor receptor; Seizure model; Selective antagonist; Electroencephalogram (Baram, T.Z. (770) 89)

Limbic seizure
Wet-dog shake; Dopamine toxicity; Fos; Substantia nigra (Fan, X.D. (751) 31)

Evans blue dye; Epilepsy; Glutamate; Non-NMDA receptor; Microdialysis; Rat (Dürmüller, N. (753) 283)

Meriones unguiculatus; Genetic epilepsy; Calcium-binding proteins; Disinhibition; Ammon-shorn (Scotti, A.L. (760) 109)

Limbic striatum
Avian brain; Electron microscopy; GABA; Glutamate; Synapse (Csillag, A. (750) 171)

Limbic system
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Linolenic acid
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Lordosis quality
5-HT_3 receptor; Lordosis behavior; Ventromedial nucleus; Ovariectomized rat; Proestrous rat (Maswood, N. (769) 13)

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Luteinizing hormone; Neural plasticity; Neuroendocrinology; Sexual behavior; Shrew (Tai, V.C. (772) 87)

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Magnesium-deficient rat
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Magnetoencephalography (MEG)
Cortical plasticity; Learning; Magnetic source imaging (MSI); Auditory discrimination; Primary auditory cortex; Association auditory cortex (Cansino, S. (764) 53)

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MARK
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Thromboembolic stroke; Rat; Thrombolysis; rt-PA; rCBF (Busch, E. (778) 16)

MCI-186
Cerebral ischemia; Delayed neuronal death; Hydroxyl radical; Radical scavenger; Rat hippocampus (Yamamoto, T. (762) 240)

Mean circulatory filling pressure
Blood pressure; Heart rate; Venous tone (Martin, D.S. (756) 106)

Mecamylamine
Nicotine; Atropine; Naloxone; Dopamine; Prolactin; TIDA neuron; Median eminence (Shieh, K.-R. (756) 266)

Mechanical allodynia
Immunohistochemistry; Peripheral nerve injury; Sensory ganglion; Sympathetic sprouting; Tyrosine hydroxylase; Ultrastructure (Chung, K. (751) 275)

Mechanical distortion
Kaolin-induced hydrocephalus; Basal ganglia; Acetylcholine; GABA; Dopamine; Immunohistochemistry (Tashiro, Y. (770) 45)

Mechanoreceptor
Baroreceptor neuron; Ion channel gating; Nodose ganglion; Cytoskeletal actin (Cunningham, J.T. (757) 149)

Calretinin; Ruffini ending; Periodontal ligament; Rat (Ochi, K. (769) 183)

Medial amygdala
Nitric oxide; NADPH-diaphorase; NOS; Paraventricular nucleus; Cholera toxin B subunit; Rat (Tanaka, M. (777) 13)

Medial forebrain bundle
DOPA; Metabolism; Dopamine; Serotonin; Fasciculus retroflexus; Neurotoxin; 5,7-Dihydroxytryptamine; Radiotracer (Cumming, P. (747) 60)

Medial geniculate
γ-Aminobutyric acid (GABA); Inhibitory neurotransmitter; Brachium; Inferior colliculus; Quantitative morphometry; Cat (Saint Marie, R.L. (765) 173)

Medial geniculate body
Audiogenic seizure; Post-tonic clonus; Neuronal firing; Habituation; GEPR-9s (N'Gouemo, P. (761) 217)

Medial nucleus of the amygdala
Medial preoptic area; Bed nucleus of the stria terminalis; Testosterone; Mating behavior; Fos (Swann, J.M. (750) 189)

Medial pallidum
Motor thalamus; Central complex; Macaques; Axonal ending; Three-dimensional reconstruction (Arecchi-Bouchhioua, P. (754) 311)

Medial perforant path
Hippocampus; Rat; Metabotropic glutamate receptor; Lateral perforant path; (1*S*,3*R*)-1-Aminocyclopentane-1,3-dicarboxylic acid; L(+)-2-Amino-4-phosphonobutyric acid; 'Paired-pulse' plasticity (Dietrich, D. (767) 220)

Medial prefrontal cortex
Pyramidal cell and interneuron; Apical dendrite; Ca^{2+} signalling; Long-term depression (Gabbott, P.L.A. (747) 352)

Frontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; Learning; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Reversal; Conditioned emotional response; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

6-Hydroxydopamine; Immunocytochemistry; Neostriatum; Nucleus accumbens core and shell; Schizophrenia; Stress; Tyrosine hydroxylase (King, D. (767) 192)

NMDA receptor; Excitatory postsynaptic potential (Arvanov, V.L. (768) 361)

Infralimbic cortex; Prelimbic cortex; Anxiety; Respiratory quotient; Passive avoidance; Autonomic; Rat (Jinks, A.L. (772) 181)

Medial preoptic area
Scent marking; Aggression; Anterior hypothalamus; Stress (Bamshad, M. (744) 15)

Estradiol neurotoxicity; β-Endorphin; Sulfated glycoprotein 2 (SGP-2); Deafferentation; Clusterin (Wener, K.M. (745) 37)

Bed nucleus of the stria terminalis; Medial nucleus of the amygdala; Testosterone; Mating behavior; Fos (Swann, J.M. (750) 189)

Luteinizing hormone surge; Norepinephrine; Push–pull perfusion; κ-opioid receptor; Nor-binaltorphimine (Smith, M.J. (768) 111)

Medial preoptic nucleus
Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Whole-cell patch-clamp; Ion current; Glutamate; NMDA; AMPA (Karlsson, U. (759) 270)

Periaqueductal gray; Nitric oxide; Nitric oxide synthase; 7-Nitro indazole; Blood pressure; Pain (Hall, C.W. (765) 208)

Whole-cell patch-clamp; Ion current; GABA; Glycine; Ligand-gated ion channel (Karlsson, U. (770) 256)

GABA turnover; Gonadal steroid; Hypothalamus; Ventromedial nucleus; Sexually dimorphic nucleus; Rat (Grattan, D.R. (775) 244)

Medial preoptico-anterior hypothalamic area
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Event-related brain potential; Saccadic eye movement; Visual memory; Hippocampus; Medial temporal lobe; Theta rhythm; Memory (Sobotka, S. (756) 168)

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Hippocampus; Human; Functional brain imaging; MEG magnetoencephalographic source mapping; Spontaneous activity; Theta; SSP signal-space projection (Tesche, C.D. (749) 53)

Event-related brain potential; Saccadic eye movement; Visual memory; Medial septum; Hippocampus; Theta rhythm; Memory (Sobotka, S. (756) 168)

Medial vestibular nucleus
Microdialysis, in vivo; Glutamate; Electrical stimulation; Neurotransmitter; Vestibular nerve (Yamanaka, T. (762) 243)

Vestibular compensation; Guinea pig; Neural plasticity; Protein phosphorylation; Protein kinase C (Sansom, A.J. (778) 166)

Median eminence
Galanin; Autoradiography; Immunocytochemistry; Electron microscopy; Nerve ending; Tanycyte; Guinea pig (Dutriez, I. (753) 36)

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Median nerve
Human cerebellum; Evoked response; Functional imaging; Magnetoencephalography; Neuromagnetism (Tesche, C.D. (744) 23)

Median raphe
Suprachiasmatic nucleus; Circadian rhythm; Serotonin; Locomotor activity; Entrainment (Meyer-Bernstein, E.L. (755) 112)

Medicinal leech
Intracellular Ca^{2+}; Extracellular K^+; Ca^{2+} channel; Polyvalent cation; Menthol (Dierkes, P.W. (746) 285)

Mediobasal hypothalamus
Rat; Neuropeptide Y; γ-Aminobutyric acid (GABA); Double-label immunocytochemistry; Reproduction; Ingestive behavior (Horvath, T.L. (756) 283)

β-Endorphin; Biological rhythm; Pro-opiomelanocortin neuron; Schizophrenia; Depression (Jamali, A.K. (771) 45)

Mediodorsal thalamic nucleus
Bicuculline; Dopamine; Immediate early genes; Motor activity; Noradrenaline; Paraventricular thalamic nucleus; Ventral tegmental area (Bubser, M. (749) 214)

Medium frequency oscillations
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Medulla
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Blood pressure regulation; Rat; Serotonin; Cardiovascular centre (Shiozaki, T. (755) 170)

Spontaneous augmented breath; Post-inspiratory neuron; Post-inspiratory inspiratory activity; Diaphragm electromyogram; Single unit recording; Control of breathing (Takeda, M. (758) 218)

Glutamate; Nucleus tractus solitarius; Rat; Vagal sensory afferent (Sykes, R.M. (762) 1)

$GABA_A$ receptor; Neurosteroid; Benzodiazepine; 3α-Hydroxy-5α-pregnan-20-one; Allopregnanolone; Female; Rat (Garrett, K.M. (768) 301)

Parasympathetic/sympathetic interaction; Single unit activity; Glutamate (McKitrick, D.J. (770) 213)

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Isoguvacine; Arterial blood pressure; Heart rate; Receptor autoradiography; Flumazenil; Benzodiazepine (Barron, K.W. (773) 53)

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Medullospinal pathway
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MEG magnetoencephalographic source mapping
Hippocampus; Human; Medial temporal lobe; Functional brain imaging; Spontaneous activity; Theta; SSP signal-space projection (Tesche, C.D. (749) 53)

Melanin-concentrating hormone
Lateral hypothalamic area; Zona incerta; Periaqueductal gray matter; True blue; Retrograde tracers; Neuropeptide EI (Elias, C.F. (755) 255)

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Melatonin receptor; Leptomeninges; Arachnoid; Pia mater; Human fetus (Drew, J.E. (761) 87)

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PC12 cell; Cell growth; Cell death; RZR nuclear receptor (Roth, J.A. (768) 63)

Neuroprotection; Ischaemia; NMDA; Cortical cultures (Cazevieille, C. (768) 120)

Oxidative stress; Dopamine neuron; Tissue culture; MPP^+; Oxyradical (Iacovitti, L. (768) 317)

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Chipmunk; Circadian rhythm (Murakami, N. (775) 240)

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Melatonin receptor
In situ hybridization; Melatonin; Pars tuberalis; RZRβ mRNA; Sensory system (Park, H.T. (747) 332)

Melatonin; Leptomeninges; Arachnoid; Pia mater; Human fetus (Drew, J.E. (761) 87)

Memantine
N-Methyl-D-aspartate (NMDA) receptor; Neurotoxicity; Phencyclidine; Scopolamine; Heat shock protein (Tomitaka, S.-i. (763) 255)

Membrane alteration
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Cat and rat carotid bodies; Chemosensory discharge; Intracellular [Ca^{2+}]; Na^+/Ca^{2+} exchanger (Roy, A. (769) 396)

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Amygdala; Benzodiazepine; Midazolam; Aversive learning; Post-training; Amnesia; Inhibitory avoidance (Dickinson-Anson, H. (752) 197)

Leupeptin; Protease inhibitor; Lipofuscin; Degenerated neuron and process; Dentate gyrus; Hippocampus; Step-down passive avoidance task (Arai, T. (754) 157)

Event-related brain potential; Saccadic eye movement; Visual memory; Medial septum; Hippocampus; Medial temporal lobe; Theta rhythm (Sobotka, S. (756) 168)

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Acetylcholine; Glutamate; Long-term potentiation (Robinson, J.K. (765) 51)

Diazepam; Benzodiazepine; Chronic treatment; Postnatal exposure; Learning; Anxiety; Cerebral glucose utilization (Schroeder, H. (766) 142)

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Estradiol; LTP; CA1; Synaptic plasticity; Stratum radiatum; Freely moving rats (Córdoba Montoya, D.A. (778) 430)

Memory deficit
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Memory retention
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Menthol
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Mercaptosuccinate
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Mercury
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Mercury vapor Hg^0
In utero; Rat; Metallothionein; Brain; Astrocyte; Biomarker (Aschner, M. (778) 222)

Meriones unguiculatus
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Mesencephalic trigeminal neuron
γ-Aminobutyric acid (GABA); $GABA_A$ receptor; In situ hybridization; Sensory neuron; GABA uptake (Hayar, A. (753) 120)

Mesencephalic trigeminal nucleus
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Mesencephalon
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Mesocricetus auratus
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Mesolimbic
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Caloric restriction; DA overflow; Aging; Mesostriatal; Electrochemistry, in vivo (Diao, L.H. (763) 276)

Mesolimbic dopamine system
δ Opioid receptor; Conditioned place preference; Reward; Dopamine turnover (Suzuki, T. (744) 327)

Mesopontine
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Antimuscarinic; Hyperactivity; Dopaminergic; Cholinergic; Psychosis (Mathur, A. (775) 144)

Mesostriatal
Caloric restriction; DA overflow; Aging; Mesolimbic; Electrochemistry, in vivo (Diao, L.H. (763) 276)

Messenger RNA
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Metabolism
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Thyrotropin-releasing hormone (TRH); Soman; Seizure; Acetylcholine; Excitotoxicity; Organophosphorus (Kubek, M.J. (747) 328)

Hippocampal slice; Neurotoxicity; Microphysiometry; Selective neuronal vulnerability (Ajilore, O.A. (752) 99)

Opiate; Central nervous system; Reinforcement; Limbic system; Nucleus accumbens (Martin, T.J. (755) 313)

ATP-sensitive K^+ channel; Ventromedial hypothalamic nucleus; Phosphorylation; Glibenclamide; AMPPNP; Glucose (Routh, V.H. (778) 107)

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Metabotropic
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Metabotropic glutamate receptor
DCG-IV; Cortical neuron; NMDA receptor; CCG derivative; Depolarization (Uyama, Y. (752) 327)

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Subthalamic nucleus; (*S*,*R*)-Dihydroxyphenylglycine; Brain slice; (+)-α-Methyl-4-carboxyphenylglycine; Excitation (Abbott, A. (766) 162)

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L-CCG-II; DCG-IV; DHPG; Autoradiography (Testa, C.M. (773) 15)

Alcohol; Purkinje neuron; Intracellular calcium; Fura-2; Glutamate receptor; Ionotropic glutamate receptor (Gruol, D.L. (773) 82)

Calcium current; Brain slice; G protein; Lateral septum; Non-selective channel; Sodium current (Raggenbass, M. (776) 75)

Metabotropic glutamate receptors
Pain; Spinal cord; Analgesia; Nociception (Young, M.R. (777) 161)

Metal
Alzheimer's disease; Cell morphology; Chloride channel; Glia; Intracellular calcium; Patch-clamp; Potassium channel (Jalonen, T.O. (746) 85)

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Mercury vapor Hg^0; In utero; Rat; Brain; Astrocyte; Biomarker (Aschner, M. (778) 222)

Met-enkephalin
Polyarthritis; Dynorphin A 1–8; mRNA; Rat dorsal root ganglia; In vivo spinal release (Pohl, M. (749) 18)

Prokekephalin A; Leech; Mussel; Opioid binding; δ_2 opioid receptor (Salzet, M. (768) 224)

Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance; Brain region; Spinal cord; Peripheral tissue; Central nervous system (Tejwani, G.A. (775) 119)

[Met^5]-enkephalin
Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Proliferation; Opioid; Naltrexone; Cell renewal; Eye (Zagon, I.S. (759) 92)

Methamphetamine
Indusium griseum; Hippocampal remnant; Seizure; Neurodegeneration; Fluoro-Jade; Glutamate; Catecholamine (Schmued, L.C. (759) 135)

Behavioral sensitization; Calmodulin; Hybridization, in situ; Radioimmunoassay; Dopamine (Shimizu, Y. (765) 247)

Amphetamine; Neurotoxicity; PET; Dopamine; Primate (Melega, W.P. (766) 113)

Sensitization; Neurotoxicity; Dopamine; Serotonin (Abekawa, T. (767) 34)

Knockout mouse; Neurotoxicity; p53; Serotonin transporter (Hirata, H. (768) 345)

P-glycoprotein; Neurotoxicity; Methylenedioxymethamphetamine; Blood–brain barrier; Dopamine; Striatum; Nucleus accumbens; Cancer (Mann, H. (769) 340)

Heat shock protein; Dopamine; Body temperature; Hippocampus; Striatum (Kuperman, D.I. (771) 221)

Methoctramine
μ-Opioid receptor; Dopamine release; AF64-A; Rat striatum; Microdialysis; γ-Aminobutyric acid (GABA) (Dourmap, N. (749) 295)

3-Methoxy-4-hydroxyphenylglycol
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3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Norepinephrine; 5-Hydroxytryptamine; 5-Hydroxyindoleacetic acid; Striatum; Nucleus accumbens (Irifune, M. (763) 281)

3-Methoxytyramine
Alcohol drinking; Alcohol-preferring rat; Dopamine ; Water drinking; Caudate-putamen; Nucleus accumbens; Olfactory tubercle (Honkanen, A. (774) 207)

(+)-α-Methyl-4-carboxyphenylglycine
Subthalamic nucleus; Metabotropic glutamate receptor; (*S*,*R*)-Dihydroxyphenylglycine; Brain slice; Excitation (Abbott, A. (766) 162)

***N*-Methyl-D-aspartate**
Zinc oxide; Glutamate; Glycine; Receptor; CGP-39653 (Terse, P.S. (744) 347)

Non-NMDA; Corticotropin-releasing factor; DL-2-Amino-5-phosphonovaleric acid (APV); REM behavior disorder; Periodic leg movement; Nucleus magnocellularis (Lai, Y.Y. (745) 265)

Circadian system; Suprachiasmatic nucleus; Entrainment; AMPA; Neuropeptide Y; Strychnine (Schmahl, C. (746) 151)

Glycine; Glutamate; Excitotoxicity; Ischemia; Microdialysis; Extracellular field (DC) potential (Obrenovitch, T.P. (746) 190)

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Brain temperature; *N*-ω-Nitro-L-arginine; Indomethacin; Rat (Hara, S. (756) 301)

Glutamate; Glycine; MK-801; Spinal cord; Cerebral cortex (Liu, Y. (757) 167)

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Rat trigeminal nucleus; Oralis subnucleus; Wind-up; MK-801; Nociception (Parada, C.A. (761) 313)

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Spreading depression; Probenecid; Microdialysis; DC potential; Organic anion transport; Kynurenic acid; Lactate (Taylor, D.L. (764) 117)

Animal model; Blood pressure; γ-Aminobutyric acid (GABA); Glutamate; Heart rate; Non-NMDA; Panic; Stress (Sajdyk, T.J. (764) 262)

α7 neuronal receptor; Cerebral cortex; Glutamate; Neuronal CNS receptor; Neuroprotection; Nicotine; Primary culture (Kaneko, S. (765) 135)

Synaptic transmission; Long-term potentiation; Melatonin; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; CA1; Hippocampus (Collins, D.R. (767) 162)

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Cocaine; Sensitization; Ventral tegmental area (Schenk, S. (769) 225)

Nitric oxide; Spectrin; Long-term potentiation; Slice culture (Musleh, W. (770) 298)

Cerebellar granule cell, dissociated; Rhodamine 123; Mitochondrial membrane potential; Arachidonic acid; Flow cytometry (Camins, A. (777) 69)

γ-Aminobutyric acid; Inhibition; Paired-pulse depression; Short-term plasticity; Superior colliculus; Transmitter release (Platt, B. (777) 131)

***N*-Methyl-D-aspartate receptor**
6-Hydroxydopamine; Norepinephrine neurons; Norepinephrine utilization; Prefrontal cortex; [^{3}H]*N*-(1-[2-Thienyl]cyclohexyl)piperidine binding (Yoshida, Y. (744) 156)

Glycine antagonist; ACEA 1021; Neurotoxicity; Neuropathology; Retrosplenial cortex; Cingulate cortex (Hawkinson, J.E. (744) 227)

Neurokinin$_1$ receptor; Substance P; Protein kinase C; Glycine; Dorsal horn (Heppenstall, P.A. (744) 235)

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Ibogaine; Noribogaine; Morphine; κ-Opioid receptor; Addiction; Drug self-administration; In vivo microdialysis (Glick, S.D. (749) 340)

Polyamine; Spermine; Cerebellar granule cell; Apoptosis; CPP32; Caspase (Harada, J. (753) 251)

Chronic pain; Spinal cord; Adrenal medulla; Peripheral neuropathy; Neuropeptide (Siegan, J.B. (755) 331)

γ-Aminobutyric acid (GABA); Serotonin; Serotonin 5-HT_{1A} receptor; Dentate gyrus; Release; Guinea pig; High performance liquid chromatography (Matsuyama, S. (761) 105)

Clozapine; Quantitative receptor autoradiography; [^{3}H]MK801; Rat (Giardino, L. (762) 216)

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Cocaine; Lidocaine; Convulsion; Spermidine (Shimosato, K. (775) 198)

Dopamine; Catalepsy; Corpus striatum; Substantia nigra (Özer, H. (777) 51)

_N_-Methyl-D,L-aspartate (NMA)
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Methylene blue
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(Del Carmen García, M. (764) 67)

3,4-Methylenedioxymethamphetamine (MDMA)
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Methylenedioxymethamphetamine
P-glycoprotein; Neurotoxicity; Methamphetamine; Blood–brain barrier; Dopamine; Striatum; Nucleus accumbens; Cancer (Mann, H. (769) 340)

3-_O_-Methyl-6-[^{18}F]fluoro-L-DOPA
Positron emission tomography; 6-[^{18}F]Fluoro-L-DOPA; Aromatic amino acid decarboxylase; Carbidopa; Catechol-_O_-methyltransferase; COMT inhibitors: CGP 28014, OR-611, Ro 40-7592 (Psylla, M. (767) 45)

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Methylphenidate
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1-Methyl-4-phenylpyridinium
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1-Methyl-4-phenylpyridinium ion (MPP^+)
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1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
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M2 muscarinic receptor
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M1 muscarinic receptor; Spontaneously hypertensive rat; Blood pressure; Autoradiography; Hypothalamus; Medulla (Gattu, M. (771) 173)

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Modified electroconvulsive shock
Modified electroconvulsive shock seizure; Electroconvulsive shock; Electroconvulsive therapy; Evoked potential; Hippocampus (Gombos, Z. (766) 168)

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Amyloid-β accumulation; Amyloid-β precursor protein processing; Smooth muscle cell (Mazur-Kolecka, B. (760) 255)

Monosialoganglioside
Amphetamine; Behavior; Sensitization; Locomotor activity; Mice (Bellot, R.G. (747) 169)

Monosynaptic contact
Substantia nigra pars reticulata; Parvicellular reticular formation; Motor trigeminal nucleus; Rat (Yasui, Y. (775) 219)

Mood disorder
Borna disease virus; p24; Nested RT-PCR; Brain; Olfactory bulb; Schizophrenia (Haga, S. (770) 307)

Mood-stabilizing drug
Inositol monophosphatase; Lithium; Inositol; Galactose 1-phosphatase (Parthasarathy, R. (778) 99)

***MOR* gene**
μ-Knockout; Transgenic mouse; Opioid receptor; Receptor, μ-, δ-, κ_1- and κ-; Autoradiography; Opioid receptor mapping; Gene deletion (Kitchen, I. (778) 73)

Morphine
Dopamine xanthine metabolism; Ascorbic acid; Uric acid; Striatum, Release, in vivo (Enrico, P. (745) 173)

G-protein; Mu opioid receptor; Locus coeruleus; Low K_m; GTPase; GTPγS; β-endorphin (Selley, D.E. (746) 10)

Acetylcholine release; Kainic acid; Olfactory tubercle; Caudate-putamen; Ventral striatum; Dorsal striatum; Dopamine; Serotonin (Guevara, B.H. (749) 139)

Ibogaine; Noribogaine; κ-Opioid receptor; *N*-Methyl-D-aspartate receptor; Addiction; Drug self-administration; In vivo microdialysis (Glick, S.D. (749) 340)

L-Arginine; N^G-nitro-L-arginine; Antinociception; Nitric oxide synthase; Brain region; Serum morphine concentration; RIA (Bhargava, H.N. (749) 351)

Ibogaine; Noribogaine; U-50,488H; DPDPE; Antinociception; Mouse (Bhargava, H.N. (752) 234)

Ibogaine; Antinociception; Tolerance; U-50,488H; DPDPE; Opioid receptor agonist; Mouse (Cao, Y.-J. (752) 250)

Butorphanol; Glutamate; Aspartate; Locus coeruleus; Microdialysis; Nor-binaltorphimine; U-69,593 (Hoshi, K. (753) 63)

Heroin; Opiate; Prefrontal cortex; Nucleus accumbens; Electrophysiology; Drug of abuse (Chang, J.-Y. (754) 12)

Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Brain region; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

μ-Opioid receptor; Locus coeruleus; Enkephalin; Monkey; Immunohistochemistry (Chen, J. (755) 326)

Adenosine; Substance P; Spinal cord (Cahill, C.M. (760) 294)

Hemorrhage; Hypovolemia; Opioid; Heart rate; Bradycardia; Blood pressure; Central nervous system (Ohnishi, M. (763) 39)

Invertebrate ganglia; Dopamine; Anandamide; Serotonin; Presynaptic release (Stefano, G.B. (763) 63)

Opiate; Opioid; Drug tolerance; Drug withdrawal; Adenosine; Nucleoside transporter; Mouse brain (Kaplan, G.B. (763) 215)

Noribogaine; Antinociception; Tolerance; Mouse (Bhargava, H.N. (771) 343)

Midazolam; Opioid; Benzodiazepine; Met-enkephalin; Tolerance; Brain region; Spinal cord; Peripheral tissue; Central nervous system (Tejwani, G.A. (775) 119)

Behavior; Cadmium; Fentanyl; Opiate; Place preference (Miller, D.K. (776) 162)

Morphine dependence
Rat cerebral cortex primary culture; Dynorphin; Enkephalin; Peptidase; Mass spectrometry (Vlaskovska, M. (760) 85)

AMPA receptor; Excitatory amino acid; LY293558; Withdrawal jumping; Morphine tolerance (McLemore, G.L. (778) 120)

Morphine-modulating peptide
Antiopioid; Electrophysiology; γ-Aminobutyric acid; Opioid; Interneuron (Miller, K.K. (750) 81)

Morphine tolerance
Central sensitization; Fos; Lamina X; Rat; Sacral parasympathetic; Withdrawal (Rohde, D.S. (745) 83)

AMPA receptor; Morphine dependence; Excitatory amino acid; LY293558; Withdrawal jumping (McLemore, G.L. (778) 120)

Morphometry
Aging; Alzheimer's disease; Calcium; Cognition; Glucocorticoid; Memory; Stress (Dachir, S. (748) 175)

Cytochrome oxidase; Quantitative cytochemistry; Inferior colliculus; Alzheimer's disease; Cellular energy metabolism (Gonzalez-Lima, F. (752) 117)

Adrenalectomy; Metrazole; *N*-Methyl-D,L-aspartate (NMA); Quantitative immunocytochemistry (Wintrip, N. (754) 113)

Synaptic vesicle; Quantal release; Exocytosis; Endocytosis; Vesicle hypothesis; Acetylcholine; *Torpedo* electric organ; KCl stimulation; Sucrose stimulation (Fox, G.Q. (755) 47)

Morris water maze
Mouse; Transgenic; Plasticity; Spatial learning; Synaptophysin; GAP43; Entorhinal cortex lesion (Hardman, R. (758) 187)

Head injury; Hippocampus; Learning and memory; Rat (Bramlett, H.M. (762) 195)

Learning and memory; Passive avoidance; Spontaneously hypertensive rat; Nicotinic acetylcholine receptor; Rubidium efflux; Vesicular acetylcholine transporter; Autoradiography (Gattu, M. (771) 89)

Morris water maze task
CGP36742; $GABA_B$ receptor antagonist; Baclofen; Scopolamine; Motor incoordination (Nakagawa, Y. (766) 101)

Morris water task
Nicotinic receptor; Passive avoidance; *Xenopus* oocyte (Meyer, E.M. (768) 49)

Mossy fiber
Long-term potentiation; Kindling; Hippocampus; Sprouting; Plasticity (Adams, B. (775) 193)

Mossy fiber-CA3
Synaptogenesis; Opioid receptor; Long-term potentiation; Timm's stain; Hippocampus (Escobar, M.L. (751) 330)

Mossy fiber sprouting
Kindling; Chronic epilepsy; Spontaneous seizure; Prolonged postictal convulsive state; Dominant focus (Timofeeva, O.A. (754) 227)

Prion protein; Hippocampus; PrP-null; Synaptic reorganization (Colling, S.B. (755) 28)

Motilin receptor
Synaptosome; Autoradiography; Subcellular fractionation (Depoortere, I. (777) 103)

Motoneuron
Astroglia; Microglia; Sensory ganglion; Nerve injury; Spinal cord; GFAP; OX-42 (Molander, C. (747) 122)

Motor activity
Bicuculline; Dopamine; Immediate early genes; Mediodorsal thalamic nucleus; Noradrenaline; Paraventricular thalamic nucleus; Ventral tegmental area (Bubser, M. (749) 214)

Neurosteroid; Anxiety; GABA-A receptor; Mirrored chamber; Progesterone (Reddy, D.S. (752) 61)

Methylphenidate; Dose response; Psychomotor stimulant; Chronobiology; Behavior; Diurnal rhythm (Gaytan, O. (777) 1)

Motor behavior
Psychomotor stimulant; Amphetamine; Single unit recording; Striatum; Rat (West, M.O. (745) 331)

Psychomotor stimulant; Cocaine; Single unit recording; Striatum; Rat (Pederson, C.L. (760) 261)

Motor branch
L_6–S_1 trunk; Lumbosacral trunk; Scrotum nerve; Ejaculation (Pacheco, P. (763) 202)

Motor control
Biarticular leg muscle; Force control; Electromyography (Doorenbosch, C.A.M. (751) 239)

Co-contraction; Posture; Movement; Hemiplegia (Levin, M.F. (757) 43)

Magnetoencephalography; Movement-evoked field; Sensory feedback; Somatosensory cortex (Cheyne, D. (771) 196)

Ib pathway; Muscle pain; Cutaneous pain; Man (Rossi, A. (774) 55)

Motor coordination
3-Acetylpyridine; Cerebellum; cGMP; ATP; Pramipexole; Bromocriptine (Sethy, V.H. (754) 181)

Motor cortex
Transcranial magnetic brain stimulation; Simple reaction time; Silent period; Supplementary motor area; Spinal motoneuron excitability; F wave; Human (Ziemann, U. (744) 32)

Amyotrophic lateral sclerosis; Neurotrophic factor; Immunocytochemistry (Duberley, R.M. (763) 259)

Epilepsy; Immediate early gene; c-*fos*; *zif*268/*egr*-1; Tetanus toxin; Activity-dependent gene expression (Liang, F. (778) 281)

Motor evoked potential
Flexor carpi radialis; H-reflex; Motor imagery; Human (Kasai, T. (744) 147)

H-reflex; Flexor carpi radialis muscle; Tonic voluntary contraction; Phasic voluntary contraction; Human (Kasai, T. (764) 273)

Motor imagery
Motor evoked potential; Flexor carpi radialis; H-reflex; Human (Kasai, T. (744) 147)

Motor impairment
Ethanol; Adenosine; Intracerebellar; cAMP; Mouse (Dar, M.S. (749) 263)

Motor incoordination
CGP36742; $GABA_B$ receptor antagonist; Morris water maze task; Baclofen; Scopolamine (Nakagawa, Y. (766) 101)

Motor learning
Neurotrophic electrode; Monkey; Long-term recording; Nerve growth factor; Matrigel (Kennedy, P.R. (760) 251)

Motor system
Movement disorder; Basal ganglia; Epilepsy; Midbrain; Choreoathetosis; Paroxysmal dyskinesia; Neural activity (Gernert, M. (760) 102)

Motor thalamus
Medial pallidum; Central complex; Macaques; Axonal ending; Three-dimensional reconstruction (Arecchi-Bouchhioua, P. (754) 311)

Motor trigeminal nucleus
Substantia nigra pars reticulata; Parvicellular reticular formation; Monosynaptic contact; Rat (Yasui, Y. (775) 219)

Mouse
Apoptosis; Programmed cell death; Aging; Inner ear; Cochleo-saccular degeneration (Usami, S.-i. (747) 147)

Monosialoganglioside; Amphetamine; Behavior; Sensitization; Locomotor activity (Bellot, R.G. (747) 169)

Angiotensin II; Dopamine; Haloperidol; Receptor; Nucleus accumbens; Striatum (Jenkins, T.A. (748) 137)

Free radical; Glutathione; Anisotropy; Astrocyte; Lipid peroxidation; Starvation; Primary culture (Papadopoulos, M.C. (748) 151)

Motor impairment; Ethanol; Adenosine; Intracerebellar; cAMP (Dar, M.S. (749) 263)

Lateralization; Paw preference; Restraint; Corticosterone (Neveu, P.J. (749) 344)

cNOS; iNOS; Neuron; LP-BM5 virus; Dementia; AIDS (Li, Y. (752) 107)

Apolipoprotein E (apoE); Behavior; Hippocampus; Memory; Immunocytochemistry; Alzheimer's disease (Oitzl, M.S. (752) 189)

Cerebral ischemia; Neuronal death; Laser Doppler flowmetry; Brain vasculature; Hypothermia (Yang, G. (752) 209)

Ibogaine; Noribogaine; Morphine; U-50,488H; DPDPE; Antinociception (Bhargava, H.N. (752) 234)

Ibogaine; Antinociception; Tolerance; Morphine; U-50,488H; DPDPE; Opioid receptor agonist (Cao, Y.-J. (752) 250)

Nitric oxide; N^{ω}-Nitro-L-arginine methylester; Pentylenetetrazole; Strychnine; Seizure (Kaputlu, İ. (753) 98)

Scrapie; Prion; Cytokine; Prostaglandin; Lipocortin; Neurodegeneration; Glia (Williams, A. (754) 171)

Pentobarbital sleep; Noradrenergic system; Flumazenil; FG7142; $GABA_A$/benzodiazepine receptor (Matsumoto, K. (754) 325)

Athymic; BALB/c; Microglia; Lectin; Mac-1; Thymosin α1; Cortisol (Htain, W.-W. (755) 63)

S-182; Presenilin-1; Monoclonal antibody; Immunolabeling; Alzheimer disease; Down syndrome; Rat (Kim, K.S. (757) 159)

Transgenic; Plasticity; Spatial learning; Synaptophysin; GAP43; Morris water maze; Entorhinal cortex lesion (Hardman, R. (758) 187)

MPTP; Parkinson's disease; Substantia nigra; Thalamus; Neuronal degeneration; Fluoro-Jade (Freyaldenhoven, T.E. (759) 9)

Electron microscopy; Immunocytochemistry; Glutamate; γ-Aminobutyric acid (GABA); Hippocampus; Convulsion (Buckman, J.F. (760) 193)

Glutamate metabotropic receptor; Long term potentiation; Paired pulse; Knock outs; In vivo (Bordi, F. (761) 121)

Tubulin; Androstenedione; Differentiation; Cell line; Cytoskeleton (Thuerl, C. (762) 47)

Circadian; Rhythm; Clock; Melatonin; Agonist; Syrian hamster (Van Reeth, O. (762) 185)

Knock-out mutant; Myelin; Myelin-associated glycoprotein; Oligodendrocyte; Optic nerve (Bartsch, S. (762) 231)

GAD67; GAD65; GABA; Parvalbumin; Hippocampus (Fukuda, T. (764) 237)

Nitric oxide; Sympathetic nervous system; Cat; Guinea-pig; Hamster; Rabbit; Rat (Zanzinger, J. (764) 265)

Allopregnanolone; Brain; Circadian rhythm; Neurosteroid; Estrous cycle; 5α-Pregnane-3,20-dione; Pregnenolone sulfate; Progesterone (Corpéchot, C. (766) 276)

Brain injury; Convulsion; Lidocaine; Local anaesthetic; Survival rate (Endoh, H. (767) 136)

Non-photic; Entrainment; Serotonin; Suprachiasmatic nucleus; Circadian rhythm; Activity feedback; c-*fos*; 5,7-Dihydroxytryptamine (Bradbury, M.J. (768) 125)

Swimming navigation; Amyloid precursor protein; Gene targeting; Genetic strain (Wolfer, D.P. (771) 1)

Monoamine oxidase; Transgenic animal; Histochemistry; Catecholamine; Serotonin; Aggressive behavior; Species difference (Ikemoto, K. (771) 121)

Noribogaine; Morphine; Antinociception; Tolerance (Bhargava, H.N. (771) 343)

Autoradiography; Ischemia; Middle cerebral artery; Nitric oxide synthase; Protein kinase C; Substantia nigra (Hara, H. (774) 69)

Cortistatin-14; Neuropeptide; Memory (Flood, J.F. (775) 250)

Tumor necrosis factor; TNF binding protein; Brain infarction; DNA fragmentation (Nawashiro, H. (778) 265)

Serotonin transporter; Raphe nuclei; Gene expression; In situ hybridization; [^{125}I]RTI-55 binding (Bengel, D. (778) 338)

Mouse brain
ADP-ribosylarginine hydrolase; Immunohistochemistry; Rat CSF; Western blotting; Arginine specific ADP-ribosylation (Miyaoka, T. (746) 1)

Alzheimer's disease; Beta amyloid protein; Presenilin 2; Presenilin 1; Immunohistochemistry (Blanchard, V. (758) 209)

Morphine; Opiate; Opioid; Drug tolerance; Drug withdrawal; Adenosine; Nucleoside transporter (Kaplan, G.B. (763) 215)

Mn-SOD; Mercury; Dexamethasone; Post-transcriptional modification; Oxidative stress (Kumagai, Y. (769) 178)

Mouse fetal brain
Excitatory amino acid; Kunming mouse; Excitotoxicity; Late stage of pregnancy; Convulsion; Y-maze discrimination learning; Spatial learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Mouse trisomy 16
Oxidative stress; Glutathione; Cell death; Cystine; Glutamate; Down syndrome; Alzheimer's disease (Stabel-Burow, J. (765) 313)

Mouse vas deferens
Orphanin FQ; Nociceptin; LC132 receptor; Guinea pig ileum; Naloxone; Dynorphin A(1–13)NH_2; [D-Pen^2,D-Pen^5]Enkephalin (Zhang, G. (772) 102)

Movement
Motor control; Co-contraction; Posture; Hemiplegia (Levin, M.F. (757) 43)

Primary somatosensory cortex; Sensory modulation; Receptive field; Tactile; Cutaneous (Courtemanche, R. (777) 170)

Movement disorder
Glutamate; Sigma receptor (Richter, A. (745) 336)

Basal ganglia; Epilepsy; Motor system; Midbrain; Choreoathetosis; Paroxysmal dyskinesia; Neural activity (Gernert, M. (760) 102)

Movement-evoked field
Magnetoencephalography; Sensory feedback; Somatosensory cortex; Motor control (Cheyne, D. (771) 196)

Moxonidine
I_1-imidazoline receptor; Rostral ventrolateral medulla; SHR rat; PC12 cell; Diacylglycerol; Phosphocholine; PC-PLC; D609 (Separovic, D. (749) 335)

MPP^+
Melatonin; Oxidative stress; Dopamine neuron; Tissue culture; Oxyradical (Iacovitti, L. (768) 317)

Parkinson's disease; 3,4-Dimethoxyphenylethylamine; Tetrahydropapaverine; Dopamine; Osmotic pump; Tetrahydroisoquinoline (Koshimura, I. (773) 108)

MPPG
Electrical kindling; Epileptogenesis; Presynaptic glutamate receptor; Seizure; L-AP4; In vitro $^{45}Ca^{2+}$ uptake; In vitro [^{3}H]D-aspartate release (Abdul-Ghani, A.-S. (755) 202)

p-MPPI
Defensive rage behavior; Serotonin; Periaqueductal gray; 5-HT_{1A} receptor; 5-$HT_{2/1C}$ receptor; Hypothalamus; Cat; 8-OHDPAT; DOI hydrochloride (Shaikh, M.B. (765) 198)

MPTP
Oxidative stress; Glutathione; Reactive oxygen species; Brain slice; Brain; Neurotoxicity; Complex I (Sriram, K. (749) 44)

Dopamine; Glutamate; Striatum; Substantia nigra; Neurodegeneration; Excitotoxicity; Drug screening (Kanthasamy, A.G. (759) 1)

Parkinson's disease; Substantia nigra; Thalamus; Neuronal degeneration; Mice; Fluoro-Jade (Freyaldenhoven, T.E. (759) 9)

Immediate-early gene; *Zif*268; Parkinson's disease; D1 and D2 dopamine receptor; Supersensitivity (Smith, T.S. (765) 189)

Dopamine turnover; Striatum; Caudate; Putamen; Monkey; Common marmoset (Nomoto, M. (767) 235)

α_2MR
LRP; Neuroblastoma; Differentiation; α_2Macroglobulin; Phorbol ester; Retinoic acid; Interferonγ (Fabrizi, C. (776) 154)

M_2 receptor
Acetylcholine; Cerebellar granule cell; M_3 receptor; Transmitter release; Intracellular calcium (Beani, L. (765) 91)

M_3 receptor
Acetylcholine; Cerebellar granule cell; M_2 receptor; Transmitter release; Intracellular calcium (Beani, L. (765) 91)

MRI
Global ischemia; Apparent diffusion coefficient of brain water (ADCw); Hyperglycemia; Diffusion imaging; Stroke (Huang, N.C. (757) 139)

Embolus; Focal cerebral ischemia; Rat; Laser confocal microscopy (Zhang, R.L. (766) 83)

Müller cell
Glutamate uptake; GLAST; Retina; Pigment epithelium; Glia; Astrocyte; Immunocytochemistry (Lehre, K.P. (744) 129)

Bromodeoxyuridine; C6 glioma cell; Calcein-am; Dystrophic retina; Ethidium homodimer; Gliastatin 2; Lactate dehydrogenase; Microglial cell; Retinal glia (Rosales, A.A. (748) 195)

Retina; Connexin; Gap junction; Electrical synapse; Immunoblot; Immunohistochemistry; Cx43 (Giblin, L.J. (755) 146)

Multiconvergent neuron
Multifunctional neuron; Respiratory neuron; Nucleus tractus solitarius; Respiratory reflex; Sneeze; Nasal afferent; Vagal afferent (Wallois, F. (768) 71)

Multi-Dimensional Scaling
Taste; Bitter; Alkaloid; Chorda tympani; Glossopharyngeal (Dahl, M. (756) 22)

Multifunctional neuron
Multiconvergent neuron; Respiratory neuron; Nucleus tractus solitarius; Respiratory reflex; Sneeze; Nasal afferent; Vagal afferent (Wallois, F. (768) 71)

Multiple regression analysis
Shaker K^+ channel; Single channel gating kinetics; Survival analysis; Shaker S4 region; Generalized gamma model (Shao, X.M. (770) 96)

Multiple sclerosis
Insulin-like growth factor-I; Insulin-like growth factor-I receptor; Myelination; Astrogliosis (Wilczak, N. (772) 243)

Multiunit recording
Suprachiasmatic nuclei; Circadian system; In vivo; In vitro; Neurophysiology; Photic; Nonphotic (Meijer, J.H. (753) 322)

Mu opioid receptor
G-protein; Morphine; Locus coeruleus; Low K_m; GTPase; GTPγS; β-endorphin (Selley, D.E. (746) 10)

Mu receptor
Naloxone; Quaternary naloxone; Opioid; Delta receptor; Junco; DAMGO; DPDPE (Deviche, P. (757) 276)

Murine
Heparan sulphate proteoglycan; Collagen; Laminin; Fibronectin (Coulson, E.J. (770) 72)

Muscarinic
Acetylcholine; Glutamate; γ-Aminobutyric acid (GABA); Inhibitory postsynaptic potentials (IPSPs); Neocortex; Disinhibition (Aramakis, V.B. (758) 107)

Epilepsy; Transfer; Kindling; Atropine; Acetylcholine; Amygdala; Perirhinal cortex (Buchanan, J.-A.M. (771) 63)

Muscarinic acetylcholine receptor
Prothoracicotropic hormone; Neuropeptide secreting neuron; Silkworm; *Bombyx mori* (Aizono, Y. (763) 131)

Muscarinic receptor
Kindling; Acetylcholine release; Hippocampus; Microdialysis; Pentylenetetrazol (Serra, M. (751) 175)

Alveus; *Str. radiatum*; Epilepsy; γ-Aminobutyric acid (GABA); Inhibition; Status epilepticus (Sayin, Ü. (758) 136)

Alzheimer's disease; Heme; Free radical; Thiyl radical; Antioxidant; Estrogen; Vitamin E (Venters Jr., H.D. (764) 93)

Vasoactive intestinal polypeptide; Neuroblastoma cell; mRNA; Gene expression; Peptide processing (Kristensen, B. (775) 99)

Long-term potentiation; Acetylcholine; Noradrenaline; β-Adrenoceptor; Hippocampus (Kobayashi, M. (777) 242)

Intracerebral blood vessel; Confocal microscopy; Immunofluorescence; Endothelium; Smooth muscle (Badaut, J. (778) 25)

Muscimol
Glucose; γ-Aminobutyric acid (GABA); Medial septum; Inhibitory avoidance; Memory (Parent, M.B. (745) 317)

Fear-potentiated startle; Ventral tegmental area; Quinpirole; Dopamine neuron; γ-aminobutyric $acid_A$ receptor; Aversive emotional arousal (Munro, L.J. (746) 231)

Luteinizing hormone; Puberty; γ-Aminobutyric acid; Bicuculline; Male rat (Mitsushima, D. (748) 258)

Alphaxalone; Alprazolam; Anxiolytic; Flumazenil; $GABA_A$ receptor; Neuroactive steroid; Staircase test (Pick, C.G. (765) 129)

Dopamine; Nucleus accumbens; Microdialysis; Fos expression (Yoshida, M. (767) 356)

Muscle afferent
Rat; Locomotion; Walking; Decerebrate (Fouad, K. (749) 320)

Muscle damage
Eccentric exercise; Muscle spindle; Tendon organ; Proprioception; Fatigue; Soreness; Voluntary contraction (Brockett, C. (771) 251)

Muscle extrajunctional membrane property
Dexamethasone; Muscle inactivity; Neurotrophic control; Tetrodotoxin-insensitive Na^+ channel; Tetrodotoxin; Chronic block of nerve impulse conduction (Pasino, E. (770) 242)

Muscle fatigue
Group IV muscle afferent; M wave; Rabbit (Darques, J.L. (750) 147)

Muscle inactivity
Dexamethasone; Neurotrophic control; Muscle extrajunctional membrane property; Tetrodotoxin-insensitive Na^+ channel; Tetrodotoxin; Chronic block of nerve impulse conduction (Pasino, E. (770) 242)

Muscle pain
Ib pathway; Cutaneous pain; Motor control; Man (Rossi, A. (774) 55)

Muscle reinnervation
Fetal spinal cord; Transplantation; Spinal neuron; Sciatic nerve; Axonal growth; Choline acetyltransferase; Cholera toxin B (Katsuki, M. (771) 31)

Muscle spindle
Eccentric exercise; Muscle damage; Tendon organ; Proprioception; Fatigue; Soreness; Voluntary contraction (Brockett, C. (771) 251)

Muscle stretch
Parkinson's disease; Long-latency stretch reflex; Cerebral evoked potential (Aminoff, M.J. (757) 254)

Mushroom body
Neurotransmitter; Nitric oxide; Antennal lobe; Olfactory information processing; Insect nervous system (Seidel, C. (769) 273)

Musk shrew
Preoptic area; Testosterone; Brain lesion; Excitotoxin; NMDA (*N*-methyl-D-aspartate); Sex behavior; Aromatase (Veney, S.L. (756) 273)

Mussel
Prokekephalin A; Leech; Opioid binding; δ_2 opioid receptor; Met-enkephalin (Salzet, M. (768) 224)

Mutagenesis
Single-channel current; Patch clamp; Gene expression; Retina (Lu, L. (756) 1)

Mutant mouse
Cerebellum; Purkinje cell; Sensorimotor learning; Balance; Equilibrium (Le Marec, N. (768) 310)

M wave
Muscle fatigue; Group IV muscle afferent; Rabbit (Darques, J.L. (750) 147)

Mycoplasma fermentans
Brain; Sickness; Behavior; Body temperature; Prostaglandins; AIDS (Yirmiya, R. (749) 71)

Myelin
5-Hydroxytryptamine (5-HT) receptor; Node of Ranvier; Nerve regeneration; Wallerian degeneration; Anti-idiotypic antibody; Mast cell (Yoder, E.J. (753) 299)

Knock-out mutant; Mouse; Myelin-associated glycoprotein; Oligodendrocyte; Optic nerve (Bartsch, S. (762) 231)

Optic nerve; Spinal cord; Sciatic nerve; Immunohistochemistry; Calcium; Node of Ranvier (Steffensen, I. (776) 1)

Myelin-associated glycoprotein
Myelin basic protein; Proteolipid protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Platelet-derived growth factor receptor; Thyroid hormone; Hyperthyroidism; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Knock-out mutant; Mouse; Myelin; Oligodendrocyte; Optic nerve (Bartsch, S. (762) 231)

Myelinated axon
Diabetic neuropathy; Polyneuropathy; Trophin (Singhal, A. (763) 209)

Myelination
Glia; Neurotrophic factor; Signal transduction (Oh, L.Y.S. (757) 236)

Multiple sclerosis; Insulin-like growth factor-I; Insulin-like growth factor-I receptor; Astrogliosis (Wilczak, N. (772) 243)

Myelin basic protein
Corticosteroid; Calpain; Inhibitor; Spinal cord; Neurofilament; Neuroprotection (Banik, N.L. (748) 205)

Proteolipid protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Myelin-associated glycoprotein; Platelet-derived growth factor receptor; Thyroid hormone; Hyperthyroidism; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Myenteric ganglion
Superior cervical ganglion; Stellate ganglion; Prevertebral ganglion; Dorsal root ganglion (Dun, N.J. (760) 8)

Myenteric plexus
Enteric nervous system; Neuropeptide; Chemosensation; Visceral sensation (Tamura, C.S. (770) 248)

N

N400
Magnetoencephalography; Event-related potential; Temporal lobe; Reading; Human; Sentence comprehension (Simos, P.G. (762) 29)

Na^+/Ca^{2+} exchanger
Cat and rat carotid bodies; Chemosensory discharge; Intracellular $[Ca^{2+}]$; Membrane potential (Roy, A. (769) 396)

Na^+ channel blocker
QX-314; Lidocaine; Dorsal root ganglia; Dorsal horn; Neuroma; Vagus nerve; Heart rate; Blood pressure; Pain; Local anesthetic (Omana-Zapata, I. (771) 228)

NADPH
Phosphate transport; Inorganic phosphate; Cortical neuron; ATP; Pentose phosphate; Energy metabolism (Glinn, M. (757) 85)

NADPHd
Traumatic brain injury; Endothelial nitric oxide synthase (Cobbs, C.S. (751) 336)

NADPH-diaphorase
Mitochondrion; Parkinson's; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Basal ganglion; Complex I; Substantia nigra (Ferrante, R.J. (753) 157)

Inferior alveolar nerve; Nitric oxide; Re-innervation; Horseradish peroxidase; Trigeminal ganglion (Yonehara, N. (757) 31)

Amphibians; *Pipa*; Olfactory system; Accessory olfactory system; Lectin; Soybean agglutinin (Meyer, D.L. (762) 275)

Choline acetyltransferase; Nitric oxide synthase; Retrograde axonal tracing; True blue; Sphenopalatine ganglion; Cerebral blood vessel (Kimura, T. (773) 117)

Nitric oxide; NOS; Medial amygdala; Paraventricular nucleus; Cholera toxin B subunit; Rat (Tanaka, M. (777) 13)

Nagase analbuminemic rat
Zinc; Albumin; Choroid plexus; Ventricle; Blood–cerebrospinal fluid barrier; Hydrocephalus (Takeda, A. (769) 193)

Na^+/glutamate transporter
Glutamate; In vitro ischemia; Brain slice; Na^+/K^+ ATP_{ase}; Postischemic glutamate release potentiation (Calò, G. (751) 300)

Na^+/K^+ ATPase
Glutamate; In vitro ischemia; Brain slice; Na^+/glutamate transporter; Postischemic glutamate release potentiation (Calò, G. (751) 300)

Choroid plexus; Potassium; Hyperkalemia; Hypokalemia; Cotransport (Klarr, S.A. (758) 39)

Ouabain site; α Isoform; Ouabain affinity; Focal cerebral ischaemia (Jamme, I. (774) 123)

Nalmefene
PET; Imaging; Opioid receptor antagonist; Rat brain; Dopamine receptor binding (Unterwald, E.M. (775) 183)

Naloxone
Nicotine; Atropine; Mecamylamine; Dopamine; Prolactin; TIDA neuron; Median eminence (Shieh, K.-R. (756) 266)

Quaternary naloxone; Opioid; Mu receptor; Delta receptor; Junco; DAMGO; DPDPE (Deviche, P. (757) 276)

Antinociception; Substance P; *N*-methyl-D-aspartate; Opioid; Capsaicin; Intrathecal administration; Spinal cord (Masuyama, T. (759) 241)

Antinociception; Carbachol; Glibenclamide; Atropine; Tail-flick latency; Rat (Kang, Y.-m. (761) 342)

Subnucleus reticularis dorsalis; Inflammation; Analgesia (Tsuruoka, M. (762) 264)

Sminthopsis crassicaudata; Opioid; Palatability; Naltrindole; Nor-binaltorphimine (Hope, P.J. (764) 39)

Orphanin FQ; Nociceptin; LC132 receptor; Guinea pig ileum; Mouse vas deferens; Dynorphin A(1–13)NH_2; [D-Pen^2,D-Pen^5]Enkephalin (Zhang, G. (772) 102)

β-Endorphin; Hypothalamic–pituitary–adrenal axis; Epinephrine; Norepinephrine; Opioid; Restraint stress (Yamauchi, N. (777) 140)

Naloxone benzoylhydrazone
Analgesia; Buprenorphine; Opiate receptor (mixed agonist/antagonist) (Pick, C.G. (744) 41)

Naltrexone
Excitatory opioid receptor antagonist; Etorphine; Opioid tolerance and dependence; Tail-flick assay; Withdrawal jumping assay (Shen, K.-F. (757) 176)

Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Proliferation; Opioid; [Met^5]-enkephalin; Cell renewal; Eye (Zagon, I.S. (759) 92)

Opioid; Lactation; Opioid mRNA; Arcuate nucleus; Pituitary; Rat (Kim, E.-M. (769) 303)

Naltriben (NTB)
Antinociception; 7-Benzylidinenaltrexone (BNTX); δ Opioid receptor; Spinal cord; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α (Hammond, D.L. (765) 177)

Naltrindole
Sminthopsis crassicaudata; Opioid; Palatability; Naloxone; Nor-binaltorphimine (Hope, P.J. (764) 39)

BW 373U86; δ Opioid; Electroencephalography; Hippocampus; θ Activity (Marrosu, F. (776) 24)

L-NAME
Nitric oxide; NOC 18; Medulla oblongata; Rat; L-Arginine; Sympathetic nervous system; Arterial pressure (Kagiyama, S. (757) 155)

Adenosine; Guanosine; Thymidine; Choroid plexus; Nitric oxide synthase (Redžić, Z.B. (767) 26)

NAN-190
Acetylcholine; 8-Hydroxy-2-(di-*n*-propylamino)tetralin; Serotonin$_{1A}$ receptor; Hippocampus; Microdialysis; Radioimmunoassay (Fujii, T. (761) 244)

NaP_i-2
Inorganic phosphate transporter; Reverse transcription-polymerase chain reaction (RT-PCR); Immunohistochemistry; Nonpyramidal neuron; Rat brain (Hisano, S. (772) 149)

Naphthalenic compound
Melatonin agonist; Central-type benzodiazepine receptor; Flumazenil; Bicuculline; GABAergic mechanism; Intrastriatal injection (Tenn, C.C. (756) 293)

Narcolepsy
NMDA; Retrorubral nucleus; Atonia; Twitch; REM behavior disorder; Periodic leg movement (Lai, Y.Y. (745) 257)

Dopamine; Neurotoxicity; Amphetamine; ADHD (Yuan, J. (767) 172)

Nasal afferent
Multifunctional neuron; Multiconvergent neuron; Respiratory neuron; Nucleus tractus solitarius; Respiratory reflex; Sneeze; Vagal afferent (Wallois, F. (768) 71)

NBMPR
Nucleoside; Specificity; Thymidine; Transport; Carrier-mediated; Blood-brain barrier; Choroid plexus (Thomas, S.A. (760) 59)

NCAM
PSA-NCAM; Neuronal cell adhesion molecule; Polysialic acid; Aging; Memory deficit; Hippocampus; Immunohistochemistry; Western blot (Abrous, D.N. (744) 285)

Long-term potentiation; LTP; Synaptic adhesion; AMPA; NMDA; Sialic acid; Binding (Hoffman, K.B. (753) 309)

NCAM-H
POU transcription factor; Brn-2; Developing neocortex; Postmitotic cell; Gene expression (Hagino-Yamagishi, K. (752) 261)

Near-infrared spectroscopy
Cortical spreading depression; Coupling; Glucose; Cytochrome *aa*3; Hemoglobin; Hypercapnia; Laser Doppler; Oxygen; Rat; Whisker barrel (Wolf, T. (761) 290)

Neck tourniquet
Global brain ischemia; Audiogenic seizure; Inferior colliculi; Silver impregnation (Vanický, I. (766) 262)

Necrosis
Programmed cell death; Apoptosis; Rat; Neuron; Astrocyte; Heat shock; DNA fragmentation; TUNEL; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

Negative feedback
Electrical stimulus; Amygdala; Ventral noradrenergic bundle; Hypothalamo-pituitary-adrenal axis (Weidenfeld, J. (754) 187)

Neglect
Covert orienting; Sensorimotor; Paw reaching (Ward, N.M. (775) 81)

Neocortex
Brain injury; Acetylcholine; Microdialysis; Rat (Dixon, C.E. (749) 127)

Serotonin 1A receptor; [^{3}H]8-OH-DPAT; Human brain postmortem; Hippocampus; Gender; Aging (Palego, L. (758) 26)

Muscarinic; Acetylcholine; Glutamate; γ-Aminobutyric acid (GABA); Inhibitory postsynaptic potentials (IPSPs); Disinhibition (Aramakis, V.B. (758) 107)

Immediate-early gene; Parvalbumin; Calbindin; Epilepsy; Rat (Mihaly, A. (761) 135)

Astrocyte; Glia; Patch-clamp; Volatile anaesthetic; Enflurane; Isoflurane; Halothane (Felisberti, F. (766) 56)

Nitric oxide; Immunohistochemistry; Nitric oxide synthase; Striatum; Perinatal asphyxia (Capani, F. (775) 11)

Neomycin
Dopamine; Ischemia; Voltage-gated calcium channel; Striatum; ω-Conotoxin GVIA; ω-Agatoxin IVA (Toner, C.C. (748) 85)

Neonatal
Binding enhancer; Brain damage; Neuroprotection; PD 81,273; Perinatal asphyxia (Halle, J.N. (759) 309)

Neonatal capsaicin
Nociception; Pain; Formalin; c-Fos; Blood pressure; Heart rate; Rat (Peterson, M.A. (755) 9)

Neonatal clomipramine
Depression; Serotonin; Dorsal raphe nucleus; Electrophysiology; Rat (Kinney, G.G. (756) 68)

Neonatal lesion
Retinal topography; Visual cortex ablation; Cell loss (Théoret, H. (775) 203)

Neonatal rat
Hypoxia-ischemia; Neurotoxicity; Excitatory amino acid; Cysteine (Puka-Sundvall, M. (750) 325)

Neonate
c-fos; hsp70; Brain slice; FBP (fructose-1,6-bisphosphate); Hypoxia (Hasegawa, K. (750) 1)

Sympathetic nerve discharge; Spinal cord injury; Immediate-early response gene (Ruggiero, D.A. (759) 301)

Sympathetic nerve discharge; Respiration; Spinal cord injury (Sica, A.L. (767) 380)

Active sleep; Sleep regulation; Ontogeny; Acetylcholine (Frank, M.G. (778) 64)

Neostigmine
Anticholinesterase; Carbaryl; Nicotinic acetylcholine receptor; Ion channel; PC12 cell (Nagata, K. (769) 211)

Neostriatum
Excitotoxicity; Histamine; Infrared differential interference contrast videomicroscopy; NMDA; Swelling (Colwell, C.S. (766) 205)

6-Hydroxydopamine; Immunocytochemistry; Medial prefrontal cortex; Nucleus accumbens core and shell; Schizophrenia; Stress; Tyrosine hydroxylase (King, D. (767) 192)

Amphetamine; Dopamine; Glutamate; Iontophoresis; Nucleus accumbens (Kiyatkin, E.A. (771) 14)

Neprilysin
Carotid body; Arterial chemoreceptor; Neutral endopeptidase 24.11; Immunotitration; Ultrastructural localization; Enkephalinase (Kumar, G.K. (748) 39)

Nerve ending
Galanin; Autoradiography; Immunocytochemistry; Median eminence; Electron microscopy; Tanycyte; Guinea pig (Dutriez, I. (753) 36)

Nerve graft
Nerve regeneration; Peripheral nerve; Schwann cell; Silicone; Implant; Matrix; Immunohistochemistry (Zhao, Q. (769) 125)

Nerve growth factor
Brain-derived neurotrophic factor; mRNA; Dorsal root ganglion; Peripheral inflammation; Pain; In situ hybridization (Cho, H.-J. (749) 358)

Neurotrophin; Pyramidal neuron; Plasticity; Dendritic growth (Kolb, B. (751) 289)

G-protein; Signal transduction; Dexamethasone; Glucocorticoid (Li, X. (759) 213)

Neurotrophic electrode; Motor learning; Monkey; Long-term recording; Matrigel (Kennedy, P.R. (760) 251)

Phosphoinositide-3 kinase; Retrograde transport; Neuronal survival; Vesicular trafficking (Bartlett, S.E. (761) 257)

Brain-derived neurotrophic factor; Dorsal root ganglion; Spinal cord; Peripheral inflammation; Pain; Immunohistochemistry (Cho, H.-J. (764) 269)

Electroencephalography; Beta activity; Delta activity; Choline acetyl transferase; Nucleus basalis of Meynert (Holschneider, D.P. (765) 228)

Nociception; Hot plate test; Cerebrospinal fluid; Autoimmunization (Chudler, E.H. (765) 327)

Long-term potentiation; Aging (Bergado, J.A. (770) 1)

Rat brain; Enzyme-linked immunosorbent assay; Gel filtration; High molecular weight molecule; Association; Sedimentation (Hoener, M.C. (772) 1)

TDN-345; C6-10A; Astrocytoma; Neurotrophic factor; Induction (Fukumoto, H. (774) 87)

Hybridoma; Dorsal root ganglia; Sensory neuron; Neurite regeneration; Phosphorylation; Neurofilament (Hikawa, N. (774) 225)

Apoptosis; Neuronal cell; Neuroprotection; Serum deprivation; 5-HT$_{1A}$ agonist; 8-OH-DPAT (Ahlemeyer, B. (777) 179)

Sialoglycopeptide; Apoptosis; PC12 cell; Dibutyryl cAMP; Serum (Kobayashi, Y. (778) 309)

Nerve growth factor receptor
Choline acetyltransferase; p75NGFR; Immunocytochemistry; Alzheimer's disease (Gibbs, R.B. (757) 10)

Nerve injury
Astroglia; Microglia; Motoneuron; Sensory ganglion; Spinal cord; GFAP; OX-42 (Molander, C. (747) 122)

Hyperalgesia; Nociceptive flexion reflex; Neuropeptide Y; [Leu^{31},Pro^{34}]-neuropeptide Y; *N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y$_{24-36}$; α-Trinositol (White, D.M. (750) 141)

Degeneration; Regeneration; Periodontal ligament; Protein gene product 9.5; Neuropeptide Y; Ruffini ending; Inferior alveolar nerve (Youn, S.H. (752) 161)

Hybridization, in situ; Immunohistochemistry; Neuropeptide; Pain (Kerekes, N. (754) 131)

C-fiber; Polymodal nociceptor; α$_2$-Adrenoceptor; Causalgia; Sympathetic pain; Sympathetic stimulation; Epinephrine (O'Halloran, K.D. (759) 233)

Fos; Tissue injury; Trigeminal nucleus caudalis; Infraorbital nerve; Immunohistochemistry (Terayama, R. (768) 135)

Somatosensory plasticity; Primate cuneate nucleus; Brainstem mapping; Cortex; Denervation (Xu, J. (774) 211)

Nerve regeneration
Axotomy; Neurotrophic effect; Sensory test (Haglid, K.G. (753) 196)

5-Hydroxytryptamine (5-HT) receptor; Myelin; Node of Ranvier; Wallerian degeneration; Anti-idiotypic antibody; Mast cell (Yoder, E.J. (753) 299)

Peripheral nerve; Nerve graft; Schwann cell; Silicone; Implant; Matrix; Immunohistochemistry (Zhao, Q. (769) 125)

Sympathetic ganglia; Explant culture; Superior cervical ganglion; Neuropeptide; Neuropeptide expression; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Superior cervical ganglion; Axotomy; Sympathectomy; Peptide regulation (Moller, K. (775) 166)

Leukemia inhibitory factor; Transforming growth factor-β1; Schwann cell; Neurotrophic factor; DRG neuron; Sciatic nerve (Matsuoka, I. (776) 170)

Nervous system
Calcium binding protein; Gastropod; Eye; Bag cell; Mollusc; Immunocytochemistry (Kerschbaum, H.H. (746) 133)

Nested RT-PCR
Borna disease virus; p24; Brain; Olfactory bulb; Schizophrenia; Mood disorder (Haga, S. (770) 307)

Nestin
Intermediate filament; Reactive astrocyte; Infarction; Ischemia; Cortex (Duggal, N. (768) 1)

***N*-ethylmaleimide**
G-protein; GDP-β-S; Protein kinase A; High voltage-activated calcium channel; Pertussis toxin; Neuroprotective drug; Riluzole (Huang, C.-S. (762) 235)

Neural activity
Movement disorder; Basal ganglia; Epilepsy; Motor system; Midbrain; Choreoathetosis; Paroxysmal dyskinesia (Gernert, M. (760) 102)

Plasticity; Fibroblast growth factor (Gómez-Pinilla, F. (764) 1)

Ischemia; Glucose deprivation; Calcium ion; Hippocampus; Developing brain (Nabetani, M. (769) 158)

Neural cell adhesion molecule
Brain; Heparan sulfate; Proteoglycan; Immunocytochemistry; Synaptic plasticity (Fuxe, K. (746) 25)

L1 antigen; Contactin; Cell recognition molecule; Cerebrospinal fluid; Schizophrenia (Poltorak, M. (751) 152)

Neural code
Taste; Parabrachial nucleus of the pons; Nucleus of the solitary tract; Electrophysiology; Rat (Di Lorenzo, P.M. (763) 167)

Neural innervation
Trigeminovascular; Cerebral vasodilatation; Migraine (Goadsby, P.J. (751) 247)

Neural plasticity
Dorsal horn; Receptive field; Supraspinall; Cat (Garrison, D.W. (762) 228)

Vestibular compensation; Nystagmus; Vestibulocerebellum; Granule cell layer; Immunohistochemistry; N^{ω}-Nitro-L-arginine methyl ester (L-NAME); 2-Phenyl-4,4,5,5-tetramethyl-1-oxyl-3-oxide (PTIO) (Kitahara, T. (765) 1)

Luteinizing hormone-releasing hormone; Luteinizing hormone; Neuroendocrinology; Sexual behavior; Shrew (Tai, V.C. (772) 87)

Vestibular compensation; Medial vestibular nuclei; Guinea pig; Protein phosphorylation; Protein kinase C (Sansom, A.J. (778) 166)

Neural regeneration
Acrylamide; Film model; Neurofilament; Neurotubule; Migratory Schwann cell (Torigoe, K. (746) 269)

Neural stem cell
Apoptosis; Olfactory neuron; Aging (Fung, K.-M. (761) 347)

Neural transplantation
Behavioral recovery; Conditioning taste aversion; Free moving microdialysis; Glutamate; Gustatory cortex (Miranda, M.I. (759) 141)

Parkinson's disease; Double transplants; Fluorogold; Horseradish peroxidase (Mendez, I. (778) 194)

Neural tube closure
Pregnancy; Development; Environment (Marret, S. (773) 213)

Neurite outgrowth
Ca^{2+}/calmodulin-dependent protein kinase II; Protein kinase C; Isoforms, α and β; Neuroblastoma; Protein kinase inhibitor (Nomura, T. (766) 129)

Neurite regeneration
Cochlea; Deafness; AMPA; Dendritic swelling; Plasticity; Protein kinase C (Lerner-Natoli, M. (749) 109)

Polyamine; Axotomy; Structure–activity relationship; Cultured hippocampal neuron (Abe, K. (766) 281)

Hybridoma; Dorsal root ganglia; Sensory neuron; Nerve growth factor; Phosphorylation; Neurofilament (Hikawa, N. (774) 225)

Neuroactive steroid
Alphaxalone; Alprazolam; Anxiolytic; Flumazenil; $GABA_A$ receptor; Muscimol; Staircase test (Pick, C.G. (765) 129)

Neuroaxonal dystrophy
Sympathetic ganglia; Neurofilament; Peripherin (Schmidt, R.E. (769) 375)

Neuroblastoma
Suramin; IGF-II; SH-SY5Y; Autocrine (Sullivan, K.A. (744) 199)

Neuronal nicotinic; Lead; Metal; Receptor; Ion current; Whole cell voltage clamp; Acetylcholine (Oortgiesen, M. (747) 1)

Opioid receptor; Transmitter release; Calcium channel; Dopamine; Pertussis toxin (Keren, O. (764) 277)

Ca^{2+}/calmodulin-dependent protein kinase II; Protein kinase C; Neurite outgrowth; Isoforms, α and β; Protein kinase inhibitor (Nomura, T. (766) 129)

Alcohol; Cell cycle; Fetal alcohol syndrome; Growth factor; Kinetics; Proliferation; Receptor (Luo, J. (770) 139)

LRP; α_2MR; Differentiation; α_2Macroglobulin; Phorbol ester; Retinoic acid; Interferonγ (Fabrizi, C. (776) 154)

Neuroblastoma cell
Vasoactive intestinal polypeptide; Muscarinic receptor; mRNA; Gene expression; Peptide processing (Kristensen, B. (775) 99)

Neuroblastoma culture
Menadione; Oxidative stress; Thiol oxidation; Tau dephosphorylation; Alzheimer's disease (Ko, L.-w. (760) 118)

Neurocalcin
Calbindin D-28k; Calretinin; Parvalbumin; Olfactory system (Crespo, C. (745) 293)

Neurodegeneration
Alzheimer's disease; Amyloid beta peptide; Amyloid precursor protein; PC12 cell; Endosome; Lysosome (Burdick, D. (746) 275)

Microglia; Macrophage; Cytokine; Inflammation; Interleukin; Interferon (Klegeris, A. (747) 114)

ApoE-deficient mouse; Neurotrophic; Synapse; Alzheimer's disease (Masliah, E. (751) 307)

de Olmos silver staining; Haemotoxylin and eosin; Heat shock protein immunocytochemistry; Neurotoxicity; NMDA antagonists; Phencyclidine; Retrosplenial granular cortex (Corso, T.D. (752) 1)

Scrapie; Prion; Cytokine; Prostaglandin; Lipocortin; Glia; Mouse (Williams, A. (754) 171)

Optical method; Hemoglobin oxygenation; Dementia; Aging; Blood flow (Hock, C. (755) 293)

l-Deprenyl; Stroke; Cerebral ischemia; Neuronal rescue; hsp70 mRNA (Lahtinen, H. (757) 260)

Dopamine; Glutamate; Striatum; Substantia nigra; MPTP; Excitotoxicity; Drug screening (Kanthasamy, A.G. (759) 1)

Methamphetamine; Indusium griseum; Hippocampal remnant; Seizure; Fluoro-Jade; Glutamate; Catecholamine (Schmued, L.C. (759) 135)

Mitochondrion; Neuron; Astrocyte; Respiration (Almeida, A. (764) 167)

Neuron; Astrocyte; Coculture; Neuroprotection; Glutathione; Hydrogen peroxide; Dopamine (Drukarch, B. (770) 123)

1*S*,3*R*-ACPD; Quinolinic acid; Kainic acid; NMDA receptor; Apoptosis; Excitotoxicity (Wang, Y. (772) 45)

Amino acid, excitatory; Transporter; Schizophrenia; Immunocytochemistry (Shashidharan, P. (773) 139)

Apoptosis; In situ end labeling; Lewy body; Parkinson's disease; Diffuse Lewy body disease; Substantia nigra (Tompkins, M.M. (775) 24)

6-Hydroxydopamine; Recovery; Regeneration; Neurotrophic factor; Dopaminergic neuron; Direct gene transfer; Substantia nigra; Dopamine turnover (Lapchak, P.A. (777) 153)

Neurodegenerative disease
Hybridization, in situ; Gene expression; Pyramidal neuron; Hippocampus; Temporal cortex; Neuroinflammatory (Shen, Y. (769) 391)

Neurodegenerative disorder
Ion homeostasis; Brain microvasculature; Drug delivery; Brain tumor; Drug development; Alternative testing; Cell culture (Stanness, K.A. (771) 329)

Neuroendocrine control
Diencephalon; Retrograde tracing; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Teleostei; Gymnotiformes (Zupanc, G.K.H. (774) 106)

Neuroendocrine function
Stress; Osmotic challenge; Reproduction; Hypothalamus (Woodside, B. (752) 319)

Neuroendocrinology
Luteinizing hormone-releasing hormone; Luteinizing hormone; Neural plasticity; Sexual behavior; Shrew (Tai, V.C. (772) 87)

Neuroethology
Limbic system; Vocalization; Primate brain; Communication; Development (Newman, J.D. (758) 180)

Neurofibrillary degeneration
Amyloid; Tangle; Alzheimer's disease; Aging (Cebrián, J.L. (769) 173)

Aluminum; Amyloid precursor protein; Aβ; α_1-Antichymotrypsin; Ubiquitin; Rabbit (Huang, Y. (771) 213)

Neurofibrillary tangle
Transglutaminase; Human recombinant tau htau40; Paired helical filament; Insoluble filament (Appelt, D.M. (745) 21)

Transglutaminase; Alzheimer's disease; Tau protein (Johnson, G.V.W. (751) 323)

Calcium activated neutral proteinase; Alzheimer's disease; Calcium; Calpain antibody; Cytoskeleton (Grynspan, F. (763) 145)

Alzheimer's disease; Paired helical filament; Microtubule-associated proteins; MAP-2; MARK; Cytoskeleton (Jenkins, S.M. (767) 305)

Neuronal DNA damage; Oxidative injury; Nitrotyrosine; Neuropathology; Alzheimer's disease (Su, J.H. (774) 193)

S-100β; MAP-2; Neuronal cytoskeleton; Alzheimer's disease; Down's syndrome; Hippocampus; Dendrite (Whitaker-Azmitia, P.M. (776) 51)

Neurofilament
Neural regeneration; Acrylamide; Film model; Neurotubule; Migratory Schwann cell (Torigoe, K. (746) 269)

Corticosteroid; Calpain; Inhibitor; Spinal cord; Myelin basic protein; Neuroprotection (Banik, N.L. (748) 205)

Immunocytochemistry; Reticular formation; Brainstem; Cat; Aging (Zhang, J.-H. (769) 196)

Neuroaxonal dystrophy; Sympathetic ganglia; Peripherin (Schmidt, R.E. (769) 375)

Neuronal cdc2-like kinase; cdk5; Neuronal cdk5 activator; Phosphorylation (Lee, K.-Y. (773) 197)

Hybridoma; Dorsal root ganglia; Sensory neuron; Nerve growth factor; Neurite regeneration; Phosphorylation (Hikawa, N. (774) 225)

Neurofilament, 68 kDa
Heat-shock protein; c-*fos*; Acid fuchsin; Axonal injury; Cell death; Glial fibrillary acidic protein; Astroglia; Head trauma (Dunn-Meynell, A.A. (761) 25)

Neurofilament protein
Calpain; Expression; Spinal cord; Trauma; Proteinase (Banik, N.L. (752) 301)

Neuronal development; NF-66; NF-L; In situ hybridization; Cerebellum granule cell; 10q24; Infantile onset spinocerebellar ataxia with sensory neuropathy (Chan, S.-O. (775) 107)

Neurogenic hypertension
Afferent C-fiber; Cardiopulmonary receptor; Excitatory amino acid receptor; Neurotransmission (Chianca Jr., D.A. (756) 46)

Neuroglia
Cell cycle; Proliferation; Olidodendroglia; Microglia; Astroglia; Image analysis (Vela Hernández, J.M. (747) 130)

Astrocyte; Aging; Glial fibrillary acidic protein; Gene expression; Sciatic axotomy (Kane, C.J.M. (759) 163)

Hypomyelination; Immunohistochemistry; Lectin histochemistry; Double staining (Vela, J.M. (767) 345)

Neurogranin
In situ phosphorylation; Protein kinase C translocation; MARCKS; Two-dimensional gel electrophoresis; Phorbol ester; Hippocampal slice (Angenstein, F. (745) 46)

Neurohypophysis
Hypothalamus; Oxytocin; Brattleboro rat; Immunocytochemistry (Ang, C.W. (765) 13)

Neuroimmune
Lipopolysaccharide; Zymosan; Kainic acid; Astrocyte; Microglia; Spleen (Charlton, M.E. (764) 141)

Neuroimmune activation
Allodynia; Hyperalgesia; Interleukin-1β; Tumor necrosis factor-α; Basic fibroblast growth factor; Transforming growth factor-β (DeLeo, J.A. (759) 50)

Neuroimmunomodulation
Dopamine; Dopamine β-hydroxylase; Sympathetic neurotransmitter; Spleen; Stress (Bencsics, A. (761) 236)

Neuroinflammatory
Neurodegenerative disease; Hybridization, in situ; Gene expression; Pyramidal neuron; Hippocampus; Temporal cortex (Shen, Y. (769) 391)

Neuro-intermediate lobe
Nitric oxide synthase; Nitric oxide; β-Endorphin (Crack, P.J. (761) 113)

Neurokinin
Acetylcholine release; Dopamine receptor; 5-HT_2 receptor; Striatum (Ramírez, M.J. (757) 17)

Neurokinin A
Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Flexor reflex; Spinal cord (Jia, Y.-p. (751) 169)

Neurokinin$_1$ receptor
N-Methyl-D-aspartate receptor; Substance P; Protein kinase C; Glycine; Dorsal horn (Heppenstall, P.A. (744) 235)

Neurokinin receptor
Tachykinin; Nociception; Hyperalgesia; Inflammation; Neurokinin A; Flexor reflex; Spinal cord (Jia, Y.-p. (751) 169)

Neuroleptics
Dopamine D_1 receptor binding site; Dopamine D_2 receptor binding site; Depression; Suicide; Post-mortem brain tissue; Antidepressant drug (Bowden, C. (752) 227)

CA3; CA2; Subiculum; Presubiculum; Psychosis; Pyramidal; Nonpyramidal (Benes, F.M. (755) 121)

Partial agonist; Schizophrenia; Antipsychotic; Tardive dyskinesia; *N*-Methyl-D-aspartate; Glutamate (Lidsky, T.I. (764) 46)

Dystonia; Animal model; NMDA receptor; Catalepsy (Richter, A. (769) 296)

Neurological deficit
Brain injury; Head trauma; Fluid percussion; Neuroprotection; Riluzole (Wahl, F. (756) 247)

Neuroma
QX-314; Lidocaine; Dorsal root ganglia; Dorsal horn; Vagus nerve; Heart rate; Blood pressure; Pain; Local anesthetic; Na^+ channel blocker (Omana-Zapata, I. (771) 228)

Neuromagnetism
Human cerebellum; Evoked response; Median nerve; Functional imaging; Magnetoencephalography (Tesche, C.D. (744) 23)

Somatosensory evoked field; Hand cortical representation; Interhemispheric difference (Tecchio, F. (767) 100)

Neuromedin B receptor
Bombesin; Bombesin receptor subtype 3; Genomic organization; Tissue distribution (Ohki-Hamazaki, H. (762) 165)

Neuromedin C
Bombesin; Gastrin-releasing peptide; Suprachiasmatic; Periventricular; Whole-cell; Potassium conductance; Non-specific conductance (Reynolds, T. (750) 67)

Neuromodulation
Nitric oxide; Nitric oxide synthase (neuronal, endothelial, inducible); Hair cell; Spiral ganglion cell; Stria vascularis; Spiral ligament; Blood flow regulation (Gosepath, K. (747) 26)

Pregnenolone sulfate; Glycine receptor; Cultured spinal neuron; Patch clamp; Competitive inhibition (Wu, F.-S. (750) 318)

Adrenergic; Electrophysiology; Imidazoline; Inward rectification; Respiration; Tongue; Voltage clamp (Parkis, M.A. (769) 108)

Neuromuscular pattern
Balance; Electromyogram (EMG); Postural muscle; Postural adjustment; Voluntary movement; Rapid arm flexion (Benvenuti, F. (761) 59)

Neuron
Learning; Memory; Instrumental; Conditioning; Excitability (Tsitolovsky, L.E. (745) 271)

NT-3; NT-3 antibodies; NGF; Development; Hippocampus; Glial cell (Bertollini, L. (746) 19)

Astrocyte; Cerebral blood flow; Cerebrovascular regulation; Endothelium; Nitric oxide synthase; Rat (Weikert, S. (748) 1)

Cyclic AMP response element; ATF-2; Microglia; Alzheimer disease (Yamada, T. (749) 329)

cNOS; iNOS; Mouse; LP-BM5 virus; Dementia; AIDS (Li, Y. (752) 107)

Cell adhesion molecule; Hippocampus; Dendrite; Human (Hino, H. (753) 353)

Culture; Fura-2-release assay; Glutamate neurotoxicity; Platelet-activating factor (PAF) (Nogami, K. (754) 72)

RecA protein; Recombination; DNA repair; Glia (Araneda, S. (762) 103)

Mitochondrion; Astrocyte; Respiration; Neurodegeneration (Almeida, A. (764) 167)

Programmed cell death; Apoptosis; Necrosis; Rat; Astrocyte; Heat shock; DNA fragmentation; TUNEL; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

Nuclear magnetic resonance; Brain; Glucose; Compartmentation; ^{13}C; Astrocyte; Tricarboxylic acid cycle (TCA) cycle (Aureli, T. (765) 218)

Glutamic acid decarboxylase; γ-Aminobutyric acid; Alternative splicing; Reverse transcriptase–polymerase chain reaction (Yoshioka, A. (767) 333)

Astrocyte; Coculture; Neuroprotection; Glutathione; Hydrogen peroxide; Dopamine; Neurodegeneration (Drukarch, B. (770) 123)

Tissue plasminogen activator; *Weaver*; Cerebellum; Cell death (Mecenas, P.E. (772) 233)

FMRFamide; Dopamine; Neuropeptide; K^+-current; Mollusc (Van Tol-Steye, H. (777) 119)

Apolipoprotein E; Synthetic peptide; Endocytosis; Receptor associated protein; Cytoplasmic calcium; $[Ca^{2+}]_i$ (Wang, X.-s. (778) 6)

Neuron activity
Vasopressin; Amygdala; Central amygdaloid nucleus; Brain slice (Lu, Y.-F. (768) 266)

Neuronal acetylcholine receptor
Chemosensory neuron; Patch clamp (Zhong, H. (766) 153)

Neuronal adaptation
Scrotal thermal stimulation; VMH warm and cold responsive neuron; Thermoresponsiveness; Cold acclimatization (Li, Q. (770) 18)

Neuronal cdc2-like kinase
Neurofilament; cdk5; Neuronal cdk5 activator; Phosphorylation (Lee, K.-Y. (773) 197)

Neuronal cdk5 activator
Neurofilament; Neuronal cdc2-like kinase; cdk5; Phosphorylation (Lee, K.-Y. (773) 197)

Neuronal cell
Apoptosis; Nerve growth factor; Neuroprotection; Serum deprivation; $5\text{-}HT_{1A}$ agonist; 8-OH-DPAT (Ahlemeyer, B. (777) 179)

Neuronal cell adhesion molecule
PSA-NCAM; NCAM; Polysialic acid; Aging; Memory deficit; Hippocampus; Immunohistochemistry; Western blot (Abrous, D.N. (744) 285)

Neuronal cell culture
Axotomy; Cell death; Ciliary neurotrophic factor; Cytokine; Spinal cord injury; Trophic factor (Rosenberg, L.J. (775) 209)

Neuronal CNS receptor
α7 neuronal receptor; Cerebral cortex; Glutamate; Neuroprotection; Nicotine; *N*-Methyl-D-aspartate; Primary culture (Kaneko, S. (765) 135)

Neuronal culture
NMDA; *trans*-ACPD; KCl; Metabotropic; Intracellular calcium; σ Ligand; Neuroprotection (Klette, K.L. (756) 231)

Apoptosis; Cyclosporine; Development; Excitotoxicity; *N*-Methyl-D-aspartate (NMDA) (McDonald, J.W. (759) 228)

Neuronal cytoskeleton
S-100β; MAP-2; Alzheimer's disease; Down's syndrome; Hippocampus; Dendrite; Neurofibrillary tangle (Whitaker-Azmitia, P.M. (776) 51)

Neuronal death
Mouse; Cerebral ischemia; Laser Doppler flowmetry; Brain vasculature; Hypothermia (Yang, G. (752) 209)

3,4-dihydroxyphenylglycolaldehyde; Apoptosis; Neurotoxin; Catecholamine; Alzheimer's disease (Burke, W.J. (760) 290)

Middle cerebral artery occlusion and reperfusion; 4-Hydroxy-2-nonenal; Lipid peroxidation; OX-42; Microglia; Immunohistochemistry (Yoshino, H. (767) 81)

Ischemia; Mitochondria; Cytochrome *c* oxidase; Pyruvate dehydrogenase complex; Selective vulnerability (Zaidan, E. (772) 23)

Neuronal degeneration
Fluoro-Jade; Fluorescent tracer; Neuropathology (Schmued, L.C. (751) 37)

MK-801; NMDA; Retrosplenial cortex; Hippocampus; Pyriform cortex; Entorhinal cortex (Horváth, Z.C. (753) 181)

MPTP; Parkinson's disease; Substantia nigra; Thalamus; Mice; Fluoro-Jade (Freyaldenhoven, T.E. (759) 9)

Neuronal development
Neurofilament protein; NF-66; NF-L; In situ hybridization; Cerebellum granule cell; 10q24; Infantile onset spinocerebellar ataxia with sensory neuropathy (Chan, S.-O. (775) 107)

Neuronal differentiation
Low density lipoprotein receptor-related protein; α_2-Macroglobulin; Axon; Dendrite (Brown, M.D. (747) 313)

Thyroid hormone; Cytoskeletal protein; Actin (Biswas, S.C. (757) 245)

Neuronal DNA damage
Oxidative injury; Neurofibrillary tangle; Nitrotyrosine; Neuropathology; Alzheimer's disease (Su, J.H. (774) 193)

Neuronal firing
Audiogenic seizure; Post-tonic clonus; Habituation; Medial geniculate body; GEPR-9s (N'Gouemo, P. (761) 217)

Neuronal generation
Alcohol; Axonal pruning; Ectopic neuron; Fetal alcohol syndrome; Neuronal migration (Miller, M.W. (766) 121)

Neuronal messenger
NO; Fish; Synaptic transmission; Central nervous system; Electron microscopy; Confocal laser scanning microscopy (Holmqvist, B. (745) 67)

Neuronal migration
Alcohol; Axonal pruning; Ectopic neuron; Fetal alcohol syndrome; Neuronal generation (Miller, M.W. (766) 121)

Neuronal migration disorder
Status epilepticus; Immunohistochemistry; Kainic acid (Germano, I.M. (777) 219)

Neuronal migration pathway
Brain; Calcium; Calcyclin; Astrocyte; Rat (Yamashita, N. (778) 388)

Neuronal network
Inferior colliculus; Genetically epilepsy-prone rats; Audiogenic seizures; Seizures (Chakravarty, D.N. (761) 263)

Cytoplasmic calcium ($[Ca^{2+}]_i$); Synaptic transmission; Calcium ion channel; Potassium ion channel; Oscillation; Glutamate receptor; GABA receptor (Wang, X.-s. (767) 239)

Neuronal nicotinic
Lead; Metal; Receptor; Neuroblastoma; Ion current; Whole cell voltage clamp; Acetylcholine (Oortgiesen, M. (747) 1)

Neuronal orientation
Schizophrenia; MAP2; Phosphorylation; Densitometry; Interneuronal distance (Cotter, D. (765) 238)

Neuronal plasticity
Cortical reorganization; Extracellular recording; Single unit activity; Activity pattern (Webster, H.H. (750) 109)

Ca^{2+} oscillation; Confocal laser microscopy; Glutamate; Neurotrophic factor (Sakai, N. (778) 318)

Neuronal rescue
l-Deprenyl; Stroke; Cerebral ischemia; Neurodegeneration; hsp70 mRNA (Lahtinen, H. (757) 260)

Neuronal survival
Phosphoinositide-3 kinase; Retrograde transport; Nerve growth factor; Vesicular trafficking (Bartlett, S.E. (761) 257)

Hippocampus; Cerebral cortex; Cerebellar Purkinje cells; Patch-matrix compartments; Anterior commissure; Positional integrity (Martone, M.E. (771) 238)

Neuronal thermosensitivity
Anterior hypothalamus; Critical brain temperature; Temperature guardian neuron; Two-tier theory (Basta, D. (767) 361)

Neuronal tract tracing
Preglomerular nucleus; Telencephalon; Biocytin; Dextran-tetramethylrhodamine; Gymnotiform; *Apteronotus leptorhynchus* (Zupanc, G.K.H. (761) 179)

Neuron degeneration
Reactive oxygen species; Mitochondrial metabolic activity; Lipid peroxidation; Excitotoxicity; Superoxide dismutase; Catalase; Glutathione peroxidase (Azbill, R.D. (765) 283)

Neuron / glia interaction
Organotypic hippocampal culture; Excitotoxicity; Adenosine deaminase; Neuroprotection; Ischemia; NOS inhibitor (Barth, A. (762) 79)

Neuron loss
Astressin; Corticotropin-releasing factor (CRF) antagonist; Seizure; Hippocampus (Maecker, H. (744) 166)

Neuron number
Carcinus maenas; Crustacean; Adult neurogenesis; Brain; Olfactory pathway; 5-Bromo-2′-deoxyuridine; BrdU (Schmidt, M. (762) 131)

Neurons in culture
SN56 neuronal cell line; Tacrine; Calcium imaging; Calcium channels; Intracellular calcium; Acetylcholinesterase (Doležal, V. (769) 219)

Neuropathic pain
Sodium channel; Slow inactivation (Elliott, J.R. (754) 221)

Hyperalgesia; Pain; Rat; Spinalization; Sciatic nerve (Kauppila, T. (770) 310)

Neuropathology
N-Methyl-D-aspartate receptor; Glycine antagonist; ACEA 1021; Neurotoxicity; Retrosplenial cortex; Cingulate cortex (Hawkinson, J.E. (744) 227)

Fluoro-Jade; Neuronal degeneration; Fluorescent tracer (Schmued, L.C. (751) 37)

Epilepsy; Status epilepticus; Development; MK-801 (Thompson, K. (751) 96)

Neuronal DNA damage; Oxidative injury; Neurofibrillary tangle; Nitrotyrosine; Alzheimer's disease (Su, J.H. (774) 193)

Neuropathy
Vincristine; Insulin-like growth factor-I; Neurotrophic (Contreras, P.C. (774) 20)

Neuropeptide
Cholecystokinin octapeptide CCK-8; Acupuncture; Seizure; Opioid (Zhang, L.-X. (745) 158)

FMRFamide; Substance P; Central nervous system; Sensory afferents; Chemoreception; Immunocytochemistry; Arthropod (Schmidt, M. (746) 71)

γ-Aminobutyric acid (GABA); Calcium-binding protein; Immunohistochemistry; Hippocampus; Rat (Nomura, T. (751) 64)

Immediate–early gene; Transcription factor; Food intake; Immunohistochemistry (Houpt, T.A. (751) 143)

Hybridization, in situ; Immunohistochemistry; Nerve injury; Pain (Kerekes, N. (754) 131)

N-Methyl-D-aspartate (NMDA) receptor; Chronic pain; Spinal cord; Adrenal medulla; Peripheral neuropathy (Siegan, J.B. (755) 331)

Sympathetic nervous system; Excitatory amino acid; Spinal cord (Beyaert, C.A. (759) 175)

Bed nuclei of the stria terminalis; Conditioned emotional response; Corticotropin-releasing hormone; γ-Aminobutyric acid (GABA); Long-term modulation; Parabrachial nucleus (Petrovich, G.D. (763) 247)

Stereology; Calcium-binding protein; Immunohistochemistry; Hippocampus; Rat (Nomura, T. (764) 197)

Enteric nervous system; Myenteric plexus; Chemosensation; Visceral sensation (Tamura, C.S. (770) 248)

Angiotensin II; Dorsal vagal motor nucleus; Heart rate; Blood pressure; Angiotensin II AT_1 receptor; Trout (Pamantung, T.F. (772) 167)

Nerve regeneration; Sympathetic ganglia; Explant culture; Superior cervical ganglion; Neuropeptide expression; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Superior cervical ganglion; Axotomy; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Cortistatin-14; Memory; Mice (Flood, J.F. (775) 250)

FMRFamide; Dopamine; K^+-current; Neuron; Mollusc (Van Tol-Steye, H. (777) 119)

Neuropeptide EI
Lateral hypothalamic area; Zona incerta; Periaqueductal gray matter; True blue; Retrograde tracers; Melanin-concentrating hormone (Elias, C.F. (755) 255)

Neuropeptide expression
Nerve regeneration; Sympathetic ganglia; Explant culture; Superior cervical ganglion; Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Neuropeptide FF
Ventral tegmental area; Formalin test; Dopamine; Footshock stress; Opioids; Analgesia (Altier, N. (758) 250)

Neuropeptide secreting neuron
Muscarinic acetylcholine receptor; Prothoracicotropic hormone; Silkworm; *Bombyx mori* (Aizono, Y. (763) 131)

Neuropeptide Y
Corticotropin-releasing factor; CRF-binding protein; Hippocampus; Kindling; Co-expression; Cholecystokinin (Smith, M.A. (745) 248)

Circadian system; Suprachiasmatic nucleus; Entrainment; AMPA; *N*-Methyl-D-aspartate; Strychnine (Schmahl, C. (746) 151)

Nerve injury; Hyperalgesia; Nociceptive flexion reflex; [Leu^{31},Pro^{34}]-neuropeptide Y; *N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y_{24-36}; α-Trinositol (White, D.M. (750) 141)

Ageing; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; [Leu^{31},Pro^{34}]NPY; Noradrenaline (Hastings, J.A. (750) 301)

Degeneration; Regeneration; Periodontal ligament; Protein gene product 9.5; Ruffini ending; Inferior alveolar nerve; Nerve injury (Youn, S.H. (752) 161)

Antibody microprobe; Spontaneous release; Rat spinal cord; Cat spinal cord; Spinal transection (Mark, M.A. (754) 195)

PreproNPY mRNA; Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Streptozotocin; Diabetes; Hyperphagia (Sahu, A. (755) 339)

Rat; Mediobasal hypothalamus; γ-Aminobutyric acid (GABA); Double-label immunocytochemistry; Reproduction; Ingestive behavior (Horvath, T.L. (756) 283)

Zucker rats; Obesity; Receptor autoradiography; [^{125}I]PYY; [^{125}I][Leu^{31},Pro^{34}]PYY; Y5 'feeding' receptor (Widdowson, P.S. (758) 17)

Electrical field stimulation; Vasoactive intestinal polypeptide; Lacrimal gland; Protein secretion; Pig (Adeghate, E.A. (758) 127)

Peptide YY; Receptor; Pancreas; Brainstem; Limbic; Hypothalamus; Vagus; Rat (Whitcomb, D.C. (760) 137)

σ Receptor; Rat striatum; Dopamine release; PYX-1 (Ault, D.T. (760) 210)

Food restriction; Lactation; Reproductive function (Abizaid, A. (761) 306)

γ-Aminobutyric acid; $GABA_A$; Tetrodotoxin; Suprachiasmatic nucleus; Circadian rhythm (Huhman, K.L. (772) 176)

Obesity; Receptor autoradiography; Hypothalamus; Energy balance; Thermogenesis (Widdowson, P.S. (774) 1)

Ihara's genetically epileptic rat; Somatostatin; Corticotropin-releasing factor; Epilepsy (Takahashi, Y. (776) 255)

Galanin; Insulin; Hypothalamus; Arcuate nucleus; Paraventricular nucleus (Wang, J. (777) 231)

HIOMT; Pineal; Melatonin; Vasoactive intestinal polypeptide; Pituitary adenylate cyclase activating polypeptide; Noradrenaline (Ribelayga, C. (777) 247)

Y_5 receptor; Receptor autoradiography; [^{125}I]PYY(3–36) (Widdowson, P.S. (778) 242)

Neuropeptide Y (NPY)
Glucagon-like peptide-1 (GLP-1); Central; Feeding behavior; Chicken (Furuse, M. (764) 289)

Neuropeptide Y receptor subtype
Depression; Epilepsy; Peptide YY; Receptor plasticity (Greisen, M.H. (776) 105)

Neurophysiology
Suprachiasmatic nuclei; Circadian system; Multiunit recording; In vivo; In vitro; Photic; Nonphotic (Meijer, J.H. (753) 322)

Neuroprotection
Conopeptide; Focal ischemia; Calcium channel; Calcium channel blocker (Bowersox, S.S. (747) 343)

Corticosteroid; Calpain; Inhibitor; Spinal cord; Neurofilament; Myelin basic protein (Banik, N.L. (748) 205)

Ischemia; Gerbil; Clomethiazole (Liang, S.-P. (751) 189)

Excitotoxicity; Cyanide; Glutamate; K_{ATP} channels; Tolbutamide (Wind, T. (751) 295)

NMDA; *trans*-ACPD; KCl; Metabotropic; Intracellular calcium; σ Ligand; Neuronal culture (Klette, K.L. (756) 231)

Brain injury; Head trauma; Fluid percussion; Neurological deficit; Riluzole (Wahl, F. (756) 247)

Binding enhancer; Brain damage; Neonatal; PD 81,273; Perinatal asphyxia (Halle, J.N. (759) 309)

Cerebral ischemia; Ischemic preconditioning; Behaviour; CA1 (Corbett, D. (760) 129)

NMDA; Glutamate receptor; Steroid; Estradiol; Excitotoxicity; Calcium (Weaver Jr., C.E. (761) 338)

Organotypic hippocampal culture; Excitotoxicity; Neuron/glia interaction; Adenosine deaminase; Ischemia; NOS inhibitor (Barth, A. (762) 79)

Cerebral ischemia; Delayed neuronal death; CA1; Hypothermia; Astroglia; Microglia; Immunohistochemistry (Nakajima, Y. (765) 113)

α7 neuronal receptor; Cerebral cortex; Glutamate; Neuronal CNS receptor; Nicotine; *N*-Methyl-D-aspartate; Primary culture (Kaneko, S. (765) 135)

Chronic lithium; Excitotoxicity; Apoptosis; Polyamine (Sparapani, M. (765) 164)

Cerebral ischemia; Oxidative metabolism; Baboon; Infarction; Reperfusion; Stroke; Positron emission tomography (Touzani, O. (767) 17)

Nigrostriatal; Dopamine; Dihydroxyphenylacetic acid; Parkinson's disease (Dluzen, D. (767) 340)

Melatonin; Ischaemia; NMDA; Cortical cultures (Cazevieille, C. (768) 120)

Hypoxia; Penumbra; Calcium; Calpain inhibitor; Hippocampus (Chen, Z.-F. (769) 188)

Global ischemia; Gerbil; Hippocampus; Zonisamide; Microdialysis; Glutamate; Behavior; Histology (Owen, A.J. (770) 115)

Neuron; Astrocyte; Coculture; Glutathione; Hydrogen peroxide; Dopamine; Neurodegeneration (Drukarch, B. (770) 123)

Culture; Glutamate; L-DOPA; Neurotoxicity; Release; Striatum (Maeda, T. (771) 159)

Calcium antagonist; PCA50938; Nimodipine; Flunarizine; Cerebral ischemia; Gerbil (Zapater, P. (772) 57)

Nitric oxide synthase; Nitric oxide; Cyclic guanosine 3',5'-monophosphate; Dorsal root ganglia; Dissociated cell culture (Thippeswamy, T. (774) 116)

NMDA receptor; Huntington's disease; Excitotoxicity; Basal ganglia; Hydroxyl radical; Nitric oxide; Indazole (Bazzett, T. (775) 229)

Thrombolysis; Stroke; Eliprodil; rt-PA (Lekieffre, D. (776) 88)

P/Q-type Ca^{2+} channel; ω-Agatoxin IVA; Focal ischemia; Brain edema; Infarct size (Asakura, K. (776) 140)

Apoptosis; Neuronal cell; Nerve growth factor; Serum deprivation; $5\text{-}HT_{1A}$ agonist; 8-OH-DPAT (Ahlemeyer, B. (777) 179)

Neuroprotective agent
Betaxolol; Retina; Ischemia (Osborne, N.N. (751) 113)

Neuroprotective drug
Sodium channel; Penumbra; Ischemia; Hippocampus; Ion-sensitive microelectrode; Energy metabolism; Purine (Ashton, D. (745) 210)

G-protein; *N*-ethylmaleimide; GDP-β-S; Protein kinase A; High voltage-activated calcium channel; Pertussis toxin; Riluzole (Huang, C.-S. (762) 235)

Neuropsin
Serine protease; Learning impairment; Avoidance; Hippocampus; Oxidative stress; Diethyldithiocarbamate (Akita, H. (769) 86)

Neurosteroid
Anxiety; GABA-A receptor; Mirrored chamber; Progesterone; Motor activity (Reddy, D.S. (752) 61)

Ethanol; $GABA_A$ receptor complex; Picrotoxin; Drug discrimination; Rat (Bienkowski, P. (753) 348)

Allopregnanolone; Brain; Circadian rhythm; Mouse; Estrous cycle; 5α-Pregnane-3,20-dione; Pregnenolone sulfate; Progesterone (Corpéchot, C. (766) 276)

$GABA_A$ receptor; Benzodiazepine; Medulla; 3α-Hydroxy-5α-pregnan-20-one; Allopregnanolone; Female; Rat (Garrett, K.M. (768) 301)

Amphibian embryo; Spinal cord; GABA transmission (Reith, C.A. (770) 202)

Pregnenolone sulfate; Cultured hippocampal neurons; Whole-cell patch clamp recording; γ-Aminobutyric acid; Spontaneous release; Presynaptic action (Teschemacher, A. (772) 226)

Acetylcholine; Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Memory; Steroid; Sulfatase (Rhodes, M.E. (773) 28)

Neurosteroid synthesis
Pituitary; Synthesis of neuroactive 3α HP; 3α-Hydroxy-4-pregnen-20-one (3α HP) synthesis and metabolism; 3α HP; Steroidogenic pathway; Allopregnanolone synthesis from 3α HP (Wiebe, J.P. (764) 158)

Neurotensin
Microdialysis; Dopamine; NMDA; Striatum; Nucleus accumbens (Wagstaff, J.D. (748) 241)

Sensorimotor gating; Prepulse inhibition; Nucleus accumbens; Dopamine (Feifel, D. (760) 80)

Periaqueductal gray matter; Opioid; γ-Aminobutyric acid; Microdialysis; Rat (Stiller, C.-O. (774) 149)

Push–pull perfusion; Vagus nerve; Somatostatin; Substance P; Calcitonin gene-related peptide; Cholecystokinin (Saleh, T.M. (778) 56)

Neurotoxicity
N-Methyl-D-aspartate receptor; Glycine antagonist; ACEA 1021; Neuropathology; Retrosplenial cortex; Cingulate cortex (Hawkinson, J.E. (744) 227)

N-Methyl-D-aspartate; Sulfhydryl; Rat cerebral cortex; Tissue culture; Glutamate (Sinor, J.D. (747) 297)

Alzheimer's disease; Amyloid β protein; Ca^{2+} uptake; Chlorpromazine; Cortical neuron; PC12 cell; Phenothiazine (Ueda, K. (748) 184)

MPTP; Oxidative stress; Glutathione; Reactive oxygen species; Brain slice; Brain; Complex I (Sriram, K. (749) 44)

Neonatal rat; Hypoxia-ischemia; Excitatory amino acid; Cysteine (Puka-Sundvall, M. (750) 325)

de Olmos silver staining; Haemotoxylin and eosin; Heat shock protein immunocytochemistry; Neurodegeneration; NMDA antagonists; Phencyclidine; Retrosplenial granular cortex (Corso, T.D. (752) 1)

Hippocampal slice; Microphysiometry; Selective neuronal vulnerability; Metabolism (Ajilore, O.A. (752) 99)

Cell culture; Dopaminergic neuron; Cyclic adenosine monophosphate; 1-Methyl-4-phenylpyridinium; *N*-methyl-D-aspartate (Dickie, B.G.M. (753) 335)

Autoradiography; Fatty acid; Palmitic acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

BDNF; Cerebral cortex; Glutamate; NMDA; NO (Kume, T. (756) 200)

LDL; Oxidized LDL; CNS neuron; Oxidation response; Apoptosis; Scavenger receptor (Sugawa, M. (761) 165)

Phencyclidine; NMDA receptor antagonist; Cyclooxygenase-2; Heat shock protein; Retrosplenial cortex (Hashimoto, K. (762) 259)

Serotonin; Anorexia; Discriminative stimulus effect; Fenfluramine; Amphetamine (Fasciano, J. (763) 182)

Methylmalonic acid; Organic acidemias; Cytoskeletal protein; Phosphorylation (De Mattos-Dutra, A. (763) 221)

N-Methyl-D-aspartate (NMDA) receptor; Memantine; Phencyclidine; Scopolamine; Heat shock protein (Tomitaka, S.-i. (763) 255)

Glial fibrillary acidic protein; Vimentin; Protein phosphorylation; Kainic acid; Excitatory amino acid; Gliosis; Astrocyte (Lenz, G. (764) 188)

Fenfluramine; Amphetamine; Temperature; Thermoregulation; 5-HT; 5-HIAA (Malberg, J.E. (765) 101)

Amphetamine; Methamphetamine; PET; Dopamine; Primate (Melega, W.P. (766) 113)

Methamphetamine; Sensitization; Dopamine; Serotonin (Abekawa, T. (767) 34)

Dopamine; Amphetamine; ADHD; Narcolepsy (Yuan, J. (767) 172)

Knockout mouse; Methamphetamine; p53; Serotonin transporter (Hirata, H. (768) 345)

Developmental brain; Ganglioside; Phenoxyherbicide; 2,4-Dichlorophenoxyacetic acid (2,4-D) (Rosso, S.B. (769) 163)

P-glycoprotein; Methamphetamine; Methylenedioxymethamphetamine; Blood–brain barrier; Dopamine; Striatum; Nucleus accumbens; Cancer (Mann, H. (769) 340)

Excitatory amino acid; Glutamate; DL-Threo-β-hydroxyaspartate; Glutamate transporter; 1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor; Spinal cord; Amyotrophic lateral sclerosis (Hirata, A. (771) 37)

Dopamine; Serotonin; Amphetamine (Fasciano, J. (771) 115)

Culture; Glutamate; L-DOPA; Neuroprotection; Release; Striatum (Maeda, T. (771) 159)

Calcium current; Heavy metal; Mammalian cell line; Patch clamp; Whole cell (Hegg, C.C. (772) 63)

Neurotoxin
Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Dopamine; Norepinephrine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

DOPA; Metabolism; Dopamine; Serotonin; Medial forebrain bundle; Fasciculus retroflexus; 5,7-Dihydroxytryptamine; Radiotracer (Cumming, P. (747) 60)

Neurotransmitter
Axonal transport; Dibutyryl cyclic AMP; Hippocampus; Cell culture; Organelle motion (Hashimoto, Y. (755) 343)

γ-Aminobutyric acid (GABA); $GABA_A$ receptor; OFF pathway; Amacrine cell; Bipolar cell; Retina; Carp (Zhang, D.-Q. (759) 160)

Microdialysis, in vivo; Glutamate; Medial vestibular nucleus; Electrical stimulation; Vestibular nerve (Yamanaka, T. (762) 243)

Nitric oxide; Antennal lobe; Mushroom body; Olfactory information processing; Insect nervous system (Seidel, C. (769) 273)

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Neutral endopeptidase 24.11 (EC 3.4.24.11)
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***N*$^{\omega}$-Nitro-L-arginine methylester**
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Carotid body; Nicotine; α-Bungarotoxin; Catecholamine (Obeso, A. (754) 298)

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Carbon monoxide; Guanylyl cyclase; Heme oxygenase; N^G-Nitro-L-arginine methyl ester; Phosphodiesterase (Laitinen, K.S.M. (755) 272)

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Nitric oxide synthase inhibition; Stroke; Ischemia; Behavior; Rat (Stagliano, N.E. (759) 32)

Inducible nitric oxide synthase; Interferon regulatory factor-1; Nuclear transcription factor kappa B; Glial cell; Diethyldithiocarbamate (Fujimura, M. (759) 247)

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Nitric oxide synthase; β-Endorphin; Neuro-intermediate lobe (Crack, P.J. (761) 113)

Glial cell; Fluorocitrate; Cerebellum; In vivo microdialysis; Barrel rotation; Arginine; N^G-Nitro-L-arginine methyl ester (Yamada, K. (762) 72)

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Periaqueductal gray; Medial preoptic nucleus; Nitric oxide synthase; 7-Nitro indazole; Blood pressure; Pain (Hall, C.W. (765) 208)

Carotid body; Chemoreceptor; Chemosensory inhibition; Sodium cyanide; Sodium nitroprusside (Alcayaga, J. (767) 384)

Nitric oxide synthase; Anesthetic; Inhalational; Halothane; Rat brain (Tagliente, T.M. (767) 393)

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Neuroprotection; Nitric oxide synthase; Cyclic guanosine 3′,5′-monophosphate; Dorsal root ganglia; Dissociated cell culture (Thippeswamy, T. (774) 116)

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Neocortex; Immunohistochemistry; Nitric oxide synthase; Striatum; Perinatal asphyxia (Capani, F. (775) 11)

NMDA receptor; Huntington's disease; Excitotoxicity; Neuroprotection; Basal ganglia; Hydroxyl radical; Indazole (Bazzett, T. (775) 229)

Striatum; Synapse; Electron microscopy; Immunocytochemistry; Synaptic circuitry; Feedforward inhibition (Morello, M. (776) 30)

Nicotinic receptor; Hippocampus; Dentate gyrus; Schizophrenia (Adams, C.E. (776) 111)

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L-Arginine; L-Nitroarginine; Hepatic encephalopathy; Portacaval shunt; Western blotting; mRNA; RT-PCR (Rao, V.L.R. (765) 169)

Periaqueductal gray; Medial preoptic nucleus; Nitric oxide; 7-Nitro indazole; Blood pressure; Pain (Hall, C.W. (765) 208)

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Choline acetyltransferase; NADPH diaphorase; Retrograde axonal tracing; True blue; Sphenopalatine ganglion; Cerebral blood vessel (Kimura, T. (773) 117)

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Neuroprotection; Nitric oxide; Cyclic guanosine 3′,5′-monophosphate; Dorsal root ganglia; Dissociated cell culture (Thippeswamy, T. (774) 116)

Neocortex; Nitric oxide; Immunohistochemistry; Striatum; Perinatal asphyxia (Capani, F. (775) 11)

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Nitric oxide synthase inhibition
Nitric oxide; Stroke; Ischemia; Behavior; Rat (Stagliano, N.E. (759) 32)

Nitric oxide synthase inhibitor
Post-tetanic potentiation; Nitric oxide (NO) (Alkadhi, K.A. (753) 315)

Nitric oxide synthase (neuronal, endothelial, inducible)
Nitric oxide; Hair cell; Spiral ganglion cell; Stria vascularis; Spiral ligament; Blood flow regulation; Neuromodulation (Gosepath, K. (747) 26)

Nitric oxide synthase Parkinson's disease
Brain dialysis; Oxygen free radical; Methylpyridinium; Azide; NMDA channel; Alzheimer's disease (Smith, T.S. (765) 183)

Nitrinergic transmission
Astrocyte; Immunocytochemistry; Nitric oxide; Somatosensory; Brainstem (Kharazia, V.N. (744) 151)

L-Nitroarginine
L-Arginine; Hepatic encephalopathy; Portacaval shunt; Nitric oxide synthase; Western blotting; mRNA; RT-PCR (Rao, V.L.R. (765) 169)

Nitroglycerin
Nitric oxide; Rat; Acetylcholine; Bradykinin; Brain; Superoxide anion; Oxygen radical (Mayhan, W.G. (760) 204)

7-Nitro indazole
Periaqueductal gray; Medial preoptic nucleus; Nitric oxide; Nitric oxide synthase; Blood pressure; Pain (Hall, C.W. (765) 208)

N^G-Nitro-L-arginine
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N-ω-Nitro-L-arginine
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N^G-Nitro-L-arginine methyl ester
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Nitric oxide; Glial cell; Fluorocitrate; Cerebellum; In vivo microdialysis; Barrel rotation; Arginine (Yamada, K. (762) 72)

Nitric oxide; Spinal cord; Blood pressure; L-Arginine; Sodium nitroprusside; Methylene blue (Del Carmen García, M. (764) 67)

3-Nitropropionic acid
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Huntington's disease; Quinolinic acid; Microdialysis (Reynolds Jr., N.C. (778) 140)

Nitrosothiols
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Nitrotyrosine
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Nitrous oxide
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N^ω-Nitro-L-arginine methyl ester (L-NAME)
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NK_1 receptor
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NMDA
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c-*jun*; In situ hybridization; Restraint stress; Midazolam; Serotonin; Hippocampus (De Oliveira, C.L. (753) 202)

Long-term potentiation; LTP; NCAM; Synaptic adhesion; AMPA; Sialic acid; Binding (Hoffman, K.B. (753) 309)

Reticular formation; Fictive locomotion; Electrical stimulation; Central pattern generator; Lamprey (Guertin, P. (753) 328)

Microcirculation; Nitric oxide; Hippocampus (Fergus, A. (754) 35)

AMPA; AP-1; Transcription factor; Cerebellar granule cell; Rat (Hou, Y.-N. (754) 79)

Ionotropic; Spinal cord injury; Quisqualate; AMPA (Liu, S. (756) 160)

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Circadian; SCN; Glutamate; Phase shift; Hamster (Mintz, E.M. (758) 245)

Medial preoptic nucleus; Whole-cell patch-clamp; Ion current; Glutamate; AMPA (Karlsson, U. (759) 270)

Glutamate receptor; Steroid; Estradiol; Excitotoxicity; Calcium; Neuroprotection (Weaver Jr., C.E. (761) 338)

Noradrenaline; Locus coeruleus; Prefrontal cortex; Kainate; Carbachol; Clonidine; Microdialysis (Van Gaalen, M. (763) 56)

Rat; Microtubule associated protein; Glutamate receptor; Synaptic plasticity; APV (Sánchez, C. (765) 141)

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Oxytocin neuron; Vasopressin neuron; Glutamate receptor; AMPA; Supraoptic nucleus (Richardson, C.M. (767) 158)

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Subiculum; Intracellular recording; Bursting cell; Regular firing cell; $GABA_A$; $GABA_B$; AMPA; 5-HT (Behr, J. (773) 217)

NMDA antagonists
de Olmos silver staining; Haemotoxylin and eosin; Heat shock protein immunocytochemistry; Neurodegeneration; Neurotoxicity; Phencyclidine; Retrosplenial granular cortex (Corso, T.D. (752) 1)

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NMDA channel
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D-Serine; D-Amino acid oxidase; Nucleus of the solitary tract; Ventrolateral medulla; Intramediolateral cell column; Blood pressure regulation (Kapoor, R. (771) 351)

NMDA mechanism
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NMDA receptor
Antisense oligodeoxynucleotide; Elevated plus maze; Anxiety; Seizure (Zapata, A. (745) 114)

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5-HT_{1A} serotonin receptor; MK-801; [^{3}H]8-OH-DPAT; Autoradiography (Wędzony, K. (756) 84)

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Subacute lead exposure; Hippocampus; Cerebral cortex; Rat brain; Autoradiography; Blood lead; Brain lead (Ma, T. (760) 187)

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$GABA_A$ receptor; Pseudorabies virus; Immunofluorescence; Confocal laser microscopy; Dorsal motor nucleus of the vagas nerve; Rat (Broussard, D.L. (763) 123)

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1*S*,3*R*-ACPD; Quinolinic acid; Kainic acid; Apoptosis; Excitotoxicity; Neurodegeneration (Wang, Y. (772) 45)

Substance P; Dorsal horn; Primary afferent; Nociception; Pain (Aicher, S.A. (772) 71)

$GABA_A$ receptor; Non-NMDA receptor; Intracellular recording; Diagonal band of broca; Lateral preoptic area; Lateral hypothalamus (Yang, Q.Z. (773) 162)

WAY 100635; Serotonin 5-HT_{1A} receptor; 7-Chloro-kynurenic acid; Glycine site; Scopolamine; Hippocampus; Spatial learning; Rat (Carli, M. (774) 167)

Fos-like immunoreactivity; Trigeminal nucleus caudalis; Migraine; CGRP receptor; NK_1 receptor (Clayton, J.S. (775) 74)

Huntington's disease; Excitotoxicity; Neuroprotection; Basal ganglia; Hydroxyl radical; Nitric oxide; Indazole (Bazzett, T. (775) 229)

NMDA receptor antagonist
κ-Opioid receptor agonist; U-50,488H; Analgesia; Hypothermia; Tolerance; LY235959; Competitive antagonism (Bhargava, H.N. (747) 246)

Phencyclidine; Neurotoxicity; Cyclooxygenase-2; Heat shock protein; Retrosplenial cortex (Hashimoto, K. (762) 259)

***N*-methyl-D-aspartate**
Cell culture; Dopaminergic neuron; Neurotoxicity; Cyclic adenosine monophosphate; 1-Methyl-4-phenylpyridinium (Dickie, B.G.M. (753) 335)

Antinociception; Substance P; Naloxone; Opioid; Capsaicin; Intrathecal administration; Spinal cord (Masuyama, T. (759) 241)

Hippocampal slice; Intracellular pH; Intracellular calcium; NMDA receptor; Glycolysis; Lactate (Zhan, R.-Z. (760) 179)

***N*-methyl-D-aspartic acid**
Brain slice; Calcium; Current–voltage relationship; Magnesium; Surface charge; Suprachiasmatic nucleus; Whole-cell current (Alberi, S. (745) 55)

N^G-nitro-L-arginine
Morphine; L-Arginine; Antinociception; Nitric oxide synthase; Brain region; Serum morphine concentration; RIA (Bhargava, H.N. (749) 351)

***N^G*-nitro-L-arginine methyl ester**
Nitric oxide synthase; Hypothalamic–pituitary–adrenal axis; Adrenocorticotropic hormone; Corticosterone; Immobilization stress (Tsuchiya, T. (776) 68)

NO
Fish; Neuronal messenger; Synaptic transmission; Central nervous system; Electron microscopy; Confocal laser scanning microscopy (Holmqvist, B. (745) 67)

BDNF; Cerebral cortex; Glutamate; NMDA; Neurotoxicity (Kume, T. (756) 200)

NOC 18
Nitric oxide; L-NAME; Medulla oblongata; Rat; L-Arginine; Sympathetic nervous system; Arterial pressure (Kagiyama, S. (757) 155)

Nociceptin
Opioid receptor-like$_1$ receptor; Carageenan test; Thermal hyperalgesia; Spinal facilitation (Yamamoto, T. (754) 329)

Orphanin FQ; Hypothalamus; Dynorphin A; Opioid; Receptor (Makman, M.H. (762) 247)

Orphanin FQ; LC132 receptor; Guinea pig ileum; Mouse vas deferens; Naloxone; Dynorphin A(1–13)NH_2; [D-Pen^2,D-Pen^5]Enkephalin (Zhang, G. (772) 102)

Nociception
Dopamine; Striatum; Substantia nigra; Central pain; Deafferentation pain; Parkinson's disease; Frontal lobe (Saadé, N.E. (751) 1)

Tachykinin; Neurokinin receptor; Hyperalgesia; Inflammation; Neurokinin A; Flexor reflex; Spinal cord (Jia, Y.-p. (751) 169)

Tachykinin; Pain; C fiber; A-delta; Thermal; RIA (Zachariou, V. (752) 143)

Pain; Formalin; Neonatal capsaicin; c-Fos; Blood pressure; Heart rate; Rat (Peterson, M.A. (755) 9)

Electrophysiology; Pain; Modulation; Visceral sensation; Cortex (Brüggemann, J. (756) 297)

Pain; Electrical stimulation; Spinal cord (Romita, V.V. (761) 192)

Rat trigeminal nucleus; Oralis subnucleus; Wind-up; MK-801; *N*-Methyl-D-aspartate (Parada, C.A. (761) 313)

Serotonin; Serotonin 5-HT_3 receptor; Spinal cord; Rat (Bardin, L. (765) 267)

Nerve growth factor; Hot plate test; Cerebrospinal fluid; Autoimmunization (Chudler, E.H. (765) 327)

Spinal cord; Somatosensory; Tachykinin; Substance P (King, A.E. (767) 55)

Magnetic field; Pain; Pain-related somatosensory evoked potential; Stress-induced analgesia; Habituation (Sartucci, F. (769) 362)

Substance P; NMDA receptor; Dorsal horn; Primary afferent; Pain (Aicher, S.A. (772) 71)

Pain; Metabotropic glutamate receptors; Spinal cord; Analgesia (Young, M.R. (777) 161)

Nociceptive flexion reflex
Nerve injury; Hyperalgesia; Neuropeptide Y; [Leu^{31},Pro^{34}]-neuropeptide Y; *N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y_{24-36}; α-Trinositol (White, D.M. (750) 141)

Nociceptive nerve ending
Capsaicin; Cardiorespiratory reflex; Chemosensitive nerve ending; Skeletal muscle afferent (Kenagy, J. (744) 175)

Nociceptor
Masseter muscle; Inhibitory reflex; Brainstem; Infrared laser (Ellrich, J. (764) 214)

Inflammation; Hyperalgesia; Spinal neuron; Pain (Randich, A. (772) 135)

Node of Ranvier
5-Hydroxytryptamine (5-HT) receptor; Myelin; Nerve regeneration; Wallerian degeneration; Anti-idiotypic antibody; Mast cell (Yoder, E.J. (753) 299)

Optic nerve; Spinal cord; Sciatic nerve; Immunohistochemistry; Calcium; Myelin (Steffensen, I. (776) 1)

Nodose ganglion
Visceral afferent; Esophagus; Stomach; DiI in vivo tracing; Gastric distension; c-Fos expression; Solitary nucleus (Berthoud, H.-R. (746) 195)

Mechanoreceptor; Baroreceptor neuron; Ion channel gating; Cytoskeletal actin (Cunningham, J.T. (757) 149)

Calbindin D-28k; Jugular ganglion; Immunohistochemistry; Parvalbumin; Petrosal ganglion; S100; Vagal afferent neuron (Ichikawa, H. (768) 349)

Noise stress
Stroke; Cardiac susceptibility; Air-jet stimulation; Heart rate variability; Fast Fourier transformation (Cheung, R.T.F. (747) 181)

Noise suppression
Dorsal octavolateralis nucleus; Elasmobranch; Electroreception; Interneuron (Duman, C.H. (771) 80)

Nomifensine
Norepinephrine; Ethanol; Uptake; Age; Cerebellar cortex; Fischer 344 rat (Lin, A.M.-Y. (756) 287)

Non-exocytotic release
Reserpine; Neurotransporter; Noradrenaline; Pargyline (Yamazaki, T. (761) 329)

Non-NMDA
N-Methyl-D-aspartate (NMDA); Corticotropin-releasing factor; DL-2-Amino-5-phosphonovaleric acid (APV); REM behavior disorder; Periodic leg movement; Nucleus magnocellularis (Lai, Y.Y. (745) 265)

Animal model; Blood pressure; γ-Aminobutyric acid (GABA); Glutamate; Heart rate; *N*-Methyl-D-aspartate (NMDA); Panic; Stress (Sajdyk, T.J. (764) 262)

Non-NMDA channel
β-Amyloid peptide; β-Amyloid fibril; Calcium ion channel; Calcium homeostasis; Calcium ion concentration; Decoy peptide; hNT neuron (Blanchard, B.J. (776) 40)

Non-NMDA receptor
Evans blue dye; Epilepsy; Glutamate; Limbic seizure; Microdialysis; Rat (Dürmüller, N. (753) 283)

$GABA_A$ receptor; NMDA receptor; Intracellular recording; Diagonal band of broca; Lateral preoptic area; Lateral hypothalamus (Yang, Q.Z. (773) 162)

Non-nutrient liquid meal
Enterostatin; Vagus; Intracerebroventricular injection; Gastric emptying; High-fat diet (Lin, L. (745) 205)

Non-opioid analgesia
Parasite; Behavior; Analgesia; Predator induced analgesia; Opioid analgesia; NMDA mechanism; Stress induced analgesia; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Sex difference; Predator-induced analgesia; Opioid analgesia; NMDA mechanism; Stress induction; Analgesia; κ opiate (Kavaliers, M. (768) 30)

Nonphotic
Suprachiasmatic nuclei; Circadian system; Multiunit recording; In vivo; In vitro; Neurophysiology; Photic (Meijer, J.H. (753) 322)

Entrainment; Serotonin; Suprachiasmatic nucleus; Circadian rhythm; Mouse; Activity feedback; c-*fos*; 5,7-Dihydroxytryptamine (Bradbury, M.J. (768) 125)

Non-photic zeitgeber
Suprachiasmatic nucleus; Entrainment; Circadian rhythm; Wheel running; Food restriction (Marchant, E.G. (765) 273)

Nonpyramidal
CA3; CA2; Subiculum; Presubiculum; Psychosis; Pyramidal; Neuroleptics (Benes, F.M. (755) 121)

Nonpyramidal cell
Potassium channel; Interneuron; Channel rings; Parallel fiber; Immunofluorescence; Parvalbumin; Calbindin; Ultrastructural localization (Sekirnjak, C. (766) 173)

Nonpyramidal neuron
Inorganic phosphate transporter; NaP_i-2; Reverse transcription-polymerase chain reaction (RT-PCR); Immunohistochemistry; Rat brain (Hisano, S. (772) 149)

Non rapid eye movement sleep
Diagonal band of Broca; Warm-sensitive neuron; Cold-sensitive neuron; Thermosensitivity; Wakefulness (Alam, Md.N. (752) 81)

Non-selective channel
Calcium current; Brain slice; G protein; Lateral septum; Metabotropic glutamate receptor; Sodium current (Raggenbass, M. (776) 75)

Non-specific conductance
Bombesin; Gastrin-releasing peptide; Neuromedin C; Suprachiasmatic; Periventricular; Whole-cell; Potassium conductance (Reynolds, T. (750) 67)

Nootropic
Memory; Cognition enhancing; Aging; Alzheimer's disease (Woodruff-Pak, D.S. (747) 207)

Noradrenaline
Isolation-rearing; α_2-Adrenoceptor; Clonidine; Idazoxan; Hippocampus; Hypothalamus; Rat (Fulford, A.J. (748) 93)

Bicuculline; Dopamine; Immediate early genes; Mediodorsal thalamic nucleus; Motor activity; Paraventricular thalamic nucleus; Ventral tegmental area (Bubser, M. (749) 214)

Ageing; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; $[Leu^{31}, Pro^{34}]$NPY; Neuropeptide Y (Hastings, J.A. (750) 301)

Serotonin agonist; Serotonin antagonist; Locus coeruleus; Tandospirone; Ipsapirone (Hamamura, T. (759) 156)

Reserpine; Neurotransporter; Non-exocytotic release; Pargyline (Yamazaki, T. (761) 329)

Locus coeruleus; Prefrontal cortex; NMDA; Kainate; Carbachol; Clonidine; Microdialysis (Van Gaalen, M. (763) 56)

Hippocampus; Theta rhythm; Unilateral lesion; Serotonin; Acetylcholine; AMPA receptor (Van Praag, H. (768) 233)

Aging; Psychological stress; Hypothalamus; Intracerebral microdialysis (Wu, Y.L. (771) 347)

Long-term potentiation; Acetylcholine; Muscarinic receptor; β-Adrenoceptor; Hippocampus (Kobayashi, M. (777) 242)

HIOMT; Pineal; Melatonin; Neuropeptide Y; Vasoactive intestinal polypeptide; Pituitary adenylate cyclase activating polypeptide (Ribelayga, C. (777) 247)

Noradrenaline release
Fluoxetine; Nicotine; Nicotinic acetylcholine receptor; Hippocampus (Hennings, E.C.P. (759) 292)

Noradrenergic pathway
Nucleus of the solitary tract; Subfornical organ; Phentolamine; Timolol; Microiontophoresis; Hemorrhage; Baroreceptor activation; Rat (Tanaka, J. (777) 237)

Noradrenergic system
Pentobarbital sleep; Flumazenil; FG7142; $GABA_A$/benzodiazepine receptor; Mouse (Matsumoto, K. (754) 325)

Nor-binaltorphimine
Butorphanol; Glutamate; Aspartate; Locus coeruleus; Morphine; Microdialysis; U-69,593 (Hoshi, K. (753) 63)

Sminthopsis crassicaudata; Opioid; Palatability; Naloxone; Naltrindole (Hope, P.J. (764) 39)

Medial preoptic area; Luteinizing hormone surge; Norepinephrine; Push–pull perfusion; κ-opioid receptor (Smith, M.J. (768) 111)

Norepinephrine
Calcium oscillation; Rainbow trout; Pinealocyte; L-type calcium channel; S-antigen (Kroeber, S. (744) 68)

Imidazoline receptor; α_2-Adrenoceptor; Microdialysis; Dopamine; Clonidine; Rat (Meana, J.J. (744) 216)

Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Dopamine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Inhibitory amino acid; Dorsal medulla; Opioid peptide (Van Bockstaele, E.J. (746) 171)

Dopamine; Serotonin; Vestibule; HPLC; Rat (Gil-Loyzaga, P. (746) 265)

Dopamine; 3,4-Dihydroxyphenylalanine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Dihydrotestosterone; Estrogen; Prefrontal cortex; High-performance liquid chromatography (Handa, R.J. (751) 131)

Choroid plexus; Cerebral blood flow; Cerebrospinal fluid; Microsphere (Hathaway, C.A. (751) 344)

Electroencephalographic activity; $DPheCRF_{12-41}$; Kynurenic acid; Rat; Irritable bowel syndrome (Lechner, S.M. (756) 114)

Ethanol; Nomifensine; Uptake; Age; Cerebellar cortex; Fischer 344 rat (Lin, A.M.-Y. (756) 287)

Epiphysis cerebri; Glycogen; Lactic acid; Adrenoceptor; Desensitization (Eugenín, E.A. (760) 34)

Paraventricular nucleus; Stress ulcer; Acetylcholine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

Interleukin-1; Microdialysis; Serotonin; Dopamine; Rat (Merali, Z. (761) 225)

Terminal field distribution pattern; Grid mapping; Dopamine; Serotonin; Thalamus (Oke, A.F. (763) 69)

3,4-Dihydroxyphenylacetic acid; Homovanillic acid; 3-Methoxy-4-hydroxy-phenylglycol; 5-Hydroxytryptamine; 5-Hydroxyindoleacetic acid; Striatum; Nucleus accumbens (Irifune, M. (763) 281)

MK-801 (dizocilpine); Nucleus accumbens; Dopamine; Serotonin; Microdialysis (Yan, Q.-S. (765) 149)

Opiate withdrawal; Locus coeruleus; Excitatory amino acid; Electrophysiology (Aston-Jones, G. (765) 331)

Preoptic–hypothalamic; Dopamine content; 5-HIAA content; Plasma luteinizing hormone; Follicle-stimulating hormone; Prolactin (Anselmo-Franci, J.A. (767) 289)

Medial preoptic area; Luteinizing hormone surge; Push–pull perfusion; κ-opioid receptor; Nor-binaltorphimine (Smith, M.J. (768) 111)

Locus coeruleus; Prefrontal cortex; Excitatory amino acid; 2-Amino-5-phosphonopentanoic acid; 6-Cyano-7-nitroquinoxaline-2,3-dione (Jodo, E. (768) 327)

β-Endorphin; Hypothalamic–pituitary–adrenal axis; Epinephrine; Opioid; Naloxone; Restraint stress (Yamauchi, N. (777) 140)

Immediate-early gene; Amygdala; *fos*; *zif/268*; α_1-Adrenoceptor; β_1-Adrenoceptor (Stone, E.A. (778) 1)

Norepinephrine neurons
6-Hydroxydopamine; *N*-Methyl-D-aspartate receptor; Norepinephrine utilization; Prefrontal cortex; [^{3}H]*N*-(1-[2-Thienyl]cyclohexyl)piperidine binding (Yoshida, Y. (744) 156)

Norepinephrine transporter
Cocaine; Dopamine transporter; Prefrontal cortex; Stress (Meiergerd, S.M. (773) 203)

Tyrosine hydroxylase; Leukemia inhibitory factor; Ciliary neurotrophic factor; Retinoic acid; Superior cervical ganglia; PC12 cell (Matsuoka, I. (776) 181)

Norepinephrine utilization
6-Hydroxydopamine; *N*-Methyl-D-aspartate receptor; Norepinephrine neurons; Prefrontal cortex; [^{3}H]*N*-(1-[2-Thienyl]cyclohexyl)piperidine binding (Yoshida, Y. (744) 156)

Noribogaine
Ibogaine; Morphine; κ-Opioid receptor; *N*-Methyl-D-aspartate receptor; Addiction; Drug self-administration; In vivo microdialysis (Glick, S.D. (749) 340)

Ibogaine; Morphine; U-50,488H; DPDPE; Antinociception; Mouse (Bhargava, H.N. (752) 234)

Morphine; Antinociception; Tolerance; Mouse (Bhargava, H.N. (771) 343)

Northern blotting
Heat shock protein (HSP)70; Restraint water-immersion stress; Cerebral cortex; Stomach; Rat; Messenger RNA (Fukudo, S. (757) 146)

NOS
Nitric oxide; NADPH-diaphorase; Medial amygdala; Paraventricular nucleus; Cholera toxin B subunit; Rat (Tanaka, M. (777) 13)

cNOS
iNOS; Neuron; Mouse; LP-BM5 virus; Dementia; AIDS (Li, Y. (752) 107)

iNOS
cNOS; Neuron; Mouse; LP-BM5 virus; Dementia; AIDS (Li, Y. (752) 107)

nNOS
Barbiturate; Cerebellum; Cytochrome *P*-450 (Thompson, C.M. (754) 142)

NOS inhibitor
Organotypic hippocampal culture; Excitotoxicity; Neuron/glia interaction; Adenosine deaminase; Neuroprotection; Ischemia (Barth, A. (762) 79)

Novel sound stimulation
Learning; Plasticity; Stress; Immunohistochemistry; Gene expression; Hearing deficit (Hillman, D.E. (748) 77)

Novelty heteronuclear RNA
Stress; Estrogen; Androgen; Proenkephalin; Hybridization, in situ; Corticotropin releasing factor; C-*fos*; Paraventricular nucleus; Hypertonic saline (Yukhananov, R.Y. (764) 109)

NPPB
Cerebral cortex; Ischemia/reperfusion; Volume regulation; Anion transport; Chloride channel; Dipyridamole; SITS (Phillis, J.W. (758) 9)

NPY
VIP; Somatostatin; Cerebral cortex; Aged rat; Loss of neurons; Irregular orientation; Immunocytochemistry (Cha, C.I. (753) 235)

NSAID
Dipyrone; Analgesia; PAG; Dorsal horn; Sensory neuron; Descending inhibition (Vanegas, H. (759) 171)

NSD 1015
Hypoxia; Rat; Chemoreflex; Indolamine; Tryptophan hydroxylase (Poncet, L. (765) 122)

NT-3
NT-3 antibodies; NGF; Development; Hippocampus; Glial cell; Neuron (Bertollini, L. (746) 19)

NT-3 antibodies
NT-3; NGF; Development; Hippocampus; Glial cell; Neuron (Bertollini, L. (746) 19)

hNT cell
β-Amyloid peptide; Ionophore; Calcium current; Patch clamp; Differentiated NT2 cell; Alzheimer's disease (Sanderson, K.L. (744) 7)

N-terminus antibody
Alzheimer's disease; Apolipoprotein E; Amyloid β protein; Amyloid deposition; C-terminus antibody (Aizawa, Y. (768) 208)

hNT neuron
β-Amyloid peptide; β-Amyloid fibril; Calcium ion channel; Calcium homeostasis; Calcium ion concentration; Decoy peptide; Non-NMDA channel (Blanchard, B.J. (776) 40)

Nuclear magnetic resonance
Brain; Glucose; Compartmentation; ^{13}C; Neuron; Astrocyte; Tricarboxylic acid cycle (TCA) cycle (Aureli, T. (765) 218)

Nuclear transcription factor kappa B
Nitric oxide; Inducible nitric oxide synthase; Interferon regulatory factor-1; Glial cell; Diethyldithiocarbamate (Fujimura, M. (759) 247)

Nucleoside
Specificity; Thymidine; Transport; Carrier-mediated; NBMPR; Blood-brain barrier; Choroid plexus (Thomas, S.A. (760) 59)

Nucleoside transporter
Morphine; Opiate; Opioid; Drug tolerance; Drug withdrawal; Adenosine; Mouse brain (Kaplan, G.B. (763) 215)

5′-Nucleotidase
Astrocyte; Brain; Glial fibrillary acidic protein; Ischemia; Microglia; OX42 (Braun, N. (766) 213)

Nucleus accumbens
Cholecystokinin; Dopamine; Coexistence; Microdialysis; Caudate; Putamen (Maidment, N.T. (747) 290)

Angiotensin II; Dopamine; Haloperidol; Mouse; Receptor; Striatum (Jenkins, T.A. (748) 137)

Neurotensin; Microdialysis; Dopamine; NMDA; Striatum (Wagstaff, J.D. (748) 241)

Pertussis toxin; Ventral tegmental area; Locomotor activity; Apomorphine; Amphetamine; Sensitization (Narayanan, S. (748) 263)

Heroin; Morphine; Opiate; Prefrontal cortex; Electrophysiology; Drug of abuse (Chang, J.-Y. (754) 12)

Ventral pallidum; Microdialysis; Dopamine; Cocaine; 6-Hydroxydopamine; Conditioned place preference; Locomotion (Gong, W. (754) 103)

Opiate; Central nervous system; Metabolism; Reinforcement; Limbic system (Martin, T.J. (755) 313)

Ethanol; c-Fos; Genetics; Selected line; Locus coeruleus (Thiele, T.E. (756) 278)

Psychomotor stimulant; Cocaine; Single neuron recording; Self-administration; Appetitive behavior; Incentive stimulus; Reward (Peoples, L.L. (757) 280)

Early-gene; Striatum; Dopamine; A_{2A} receptors; Antipsychotic (Pinna, A. (759) 41)

Neurotensin; Sensorimotor gating; Prepulse inhibition; Dopamine (Feifel, D. (760) 80)

Glutamate; Amphetamine; Quinpirole; SKF-82958; Microdialysis (Kalivas, P.W. (761) 173)

Cholecystokinin; Conditioned activity; Locomotion; Devazepide; L-365,260; PD-140548; Cocaine; Reward-related learning (Josselyn, S.A. (763) 93)

Δ^9-Tetrahydrocannabinol; Fos protein; Desensitization; Striatum (Miyamoto, A. (763) 137)

3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; 5-Hydroxytryptamine; 5-Hydroxyindoleacetic acid; Striatum (Irifune, M. (763) 281)

Fixed interval schedule; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Dopamine; Dorsal striatum; Operant; Behavior (Cory-Slechta, D.A. (764) 253)

MK-801 (dizocilpine); Dopamine; Serotonin; Norepinephrine; Microdialysis (Yan, Q.-S. (765) 149)

Dopamine; Muscimol; Microdialysis; Fos expression (Yoshida, M. (767) 356)

Extracellular recording; Single neuron; Subterritory; Shell; Core; Rat; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Deoxyglucose; Clozapine; Limbic system; Haloperidol; Extrapyramidal (Colangelo, V. (768) 273)

P-glycoprotein; Neurotoxicity; Methamphetamine; Methylenedioxymethamphetamine; Blood–brain barrier; Dopamine; Striatum; Cancer (Mann, H. (769) 340)

Amphetamine; Dopamine; Glutamate; Iontophoresis; Neostriatum (Kiyatkin, E.A. (771) 14)

Electrolytic lesion; Core; Shell; Sensorimotor gating; Startle reflex (Kodsi, M.H. (773) 45)

Alcohol drinking; Alcohol-preferring rat; Dopamine ; 3-Methoxytyramine; Water drinking; Caudate-putamen; Olfactory tubercle (Honkanen, A. (774) 207)

Dopaminergic neurons; Entorhinal cortex; Unilateral 6-OHDA lesion; Hemispheric asymmetry; Locomotor activity; (+)-amphetamine (Louilot, A. (778) 150)

Nucleus accumbens: core
Dopamine efflux; Fast-scan cyclic voltammetry; Free-choice novelty; Shell; Shore (Rebec, G.V. (776) 61)

Nucleus accumbens core and shell
6-Hydroxydopamine; Immunocytochemistry; Medial prefrontal cortex; Neostriatum; Schizophrenia; Stress; Tyrosine hydroxylase (King, D. (767) 192)

Nucleus accumbens septi
Arousal; Accumbens; Dopamine; Microinjection (Campbell, A. (771) 55)

Nucleus accumbens shell
Electron microscopy; Caudate nucleus/putamen; Immunocytochemistry; Ultrastructure; Dopamine D_2 receptor; Gamma-aminobutyric acid (GABA) (Delle Donne, K.T. (746) 239)

MAOB; Enzyme histochemistry; Transgenic mouse; Ultrastructure; Dopamine (Ikemoto, K. (771) 163)

Nucleus ambiguus
Autonomic nervous system; Dorsal vagal nucleus; Nucleus tractus solitarius; Parasympathetic nervous system; Periaqueductal gray matter (Farkas, E. (764) 257)

Nucleus basalis
Avian; Parrot; Songbird; Auditory system; Field L; Vocal learning (Farabaugh, S.M. (747) 18)

Choline acetyltransferase; Parvalbumin; GABA; Septum; Diagonal band of Broca; Striatum; Alzheimer's disease (Gibbs, R.B. (753) 141)

Avian; Parrot; Somatosensory; Tactile representation (Wild, J.M. (755) 137)

Nucleus basalis of Meynert
Nerve growth factor; Electroencephalography; Beta activity; Delta activity; Choline acetyl transferase (Holschneider, D.P. (765) 228)

Nucleus magnocellularis
N-Methyl-D-aspartate (NMDA); Non-NMDA; Corticotropin-releasing factor; DL-2-Amino-5-phosphonovaleric acid (APV); REM behavior disorder; Periodic leg movement (Lai, Y.Y. (745) 265)

Cell death; Auditory system; Y10B antibody; Protein synthesis; Deafferentation; Brain slice (Hyson, R.L. (749) 61)

Nucleus of the solitary tract
Area postrema; Arcuate nucleus; Paraventricular nucleus; Ingestive behavior; Food intake; Diet selection (Edwards, G.L. (755) 84)

Taste; Parabrachial nucleus of the pons; Electrophysiology; Neural code; Rat (Di Lorenzo, P.M. (763) 167)

Cholecystokinin; Area postrema; Ventrolateral medulla; Vagus nerve; Catecholamine; Old-world primate; Rhesus monkey; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

Brain–gut axis; Autonomic nervous system; Subcoeruleus nucleus; Area postrema; Stress (Mönnikes, H. (770) 277)

D-Serine; D-Amino acid oxidase; NMDA-glycine site; Ventrolateral medulla; Intramediolateral cell column; Blood pressure regulation (Kapoor, R. (771) 351)

p-Chlorophenylalanine; 5-Hydroxytryptamine; Bed nucleus; Caudate–putamen; Thalamus; Amygdala; Parabrachial nucleus (Javed, A. (774) 94)

Subfornical organ; Noradrenergic pathway; Phentolamine; Timolol; Microiontophoresis; Hemorrhage; Baroreceptor activation; Rat (Tanaka, J. (777) 237)

Nucleus raphe magnus
Pain facilitation; Hyperalgesia; Spinal cord; Rat; Nucleus tractus solitarius; Nucleus reticularis paragigantocellularis; Formalin; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Antinociception; 7-Benzylidinenaltrexone (BNTX); Naltriben (NTB); δ Opioid receptor; Spinal cord; Nucleus reticularis gigantocellularis pars α (Hammond, D.L. (765) 177)

Nucleus reticularis gigantocellularis pars α
Antinociception; 7-Benzylidinenaltrexone (BNTX); Naltriben (NTB); δ Opioid receptor; Spinal cord; Nucleus raphe magnus (Hammond, D.L. (765) 177)

Nucleus reticularis paragigantocellularis
Pain facilitation; Hyperalgesia; Spinal cord; Rat; Nucleus tractus solitarius; Nucleus raphe magnus; Formalin; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Nucleus reticularis pontis oralis
Power spectrum; Carbachol; Acetylcholine; Electroencephalography (EEG); Brainstem (Garzón, M. (766) 266)

Nucleus retrofacialis
Bötzinger complex; Respiratory control; DL-Homocysteic acid; Expiration-related medullary neurons; Ventral respiratory group; Rabbit; Expiratory activity (Bongianni, F. (749) 1)

Nucleus tractus solitarii
Cardiopulmonary vagal reflex; Blood pressure; Sympathetic nerve activity; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Lateral tegmental field; Raphe nuclei (Vayssettes-Courchay, C. (744) 272)

CRF antagonist; Fos; Paraventricular nucleus of the hypothalamus; Capsaicin; Abdominal surgery; Supraoptic nucleus (Bonaz, B. (748) 12)

Pain facilitation; Hyperalgesia; Spinal cord; Rat; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Formalin; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Caudal ventrolateral medulla; Substance P; Retrograde tracing; Immunohistochemistry; Electron microscopy; Rat (Kawano, H. (754) 315)

Cerebral blood flow; Enzyme electrode; Hypoxia; Lactate; Laser Doppler flowmeter; Rat (Ikegami, Y. (758) 33)

Baroreceptor reflex; Baroreceptor afferent; Cardiovascular; c-*fos* immunohistochemistry (Dean, C. (758) 201)

Galanin; Activin; Catecholamine; c-Fos; Immunocytochemistry; Rat (Matta, S.G. (759) 259)

Glutamate; Medulla; Rat; Vagal sensory afferent (Sykes, R.M. (762) 1)

Autonomic nervous system; Dorsal vagal nucleus; Nucleus ambiguus; Parasympathetic nervous system; Periaqueductal gray matter (Farkas, E. (764) 257)

Multifunctional neuron; Multiconvergent neuron; Respiratory neuron; Respiratory reflex; Sneeze; Nasal afferent; Vagal afferent (Wallois, F. (768) 71)

Signal transduction; Respiratory control; Hypoxia; Protein kinase C; Ventilation (Gozal, D. (774) 246)

Nucleus trigeminal caudalis
Migraine; Sumatriptan; Blood flow (McCall, R.B. (775) 189)

Nucleus X
Somatosensory system; Brainstem; Medulla oblongata; Inferior colliculus; Thalamus; Cerebellum; Rat (Li, H. (774) 200)

Null-mutant mouse
129 substrain; B6; Behavior; Embryonic stem cell; Genetic background (Montkowski, A. (762) 12)

Nystagmus
Vestibular compensation; Neural plasticity; Vestibulocerebellum; Granule cell layer; Immunohistochemistry; N^{ω}-Nitro-L-arginine methyl ester (L-NAME); 2-Phenyl-4,4,5,5-tetramethyl-1-oxyl-3-oxide (PTIO) (Kitahara, T. (765) 1)

Nystatin perforated patch recording
5-Hydroxytryptamine$_{1A}$ receptor; Dorsal raphe neuron; Inwardly rectifying K^+ current; G protein; Rat (Katayama, J. (745) 283)

O

Obesity
Excitatory amino acid; Kunming mouse; Excitotoxicity; Late stage of pregnancy; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Spatial learning; Reproductive capacity (Yu, T. (747) 195)

Neuropeptide Y; Zucker rats; Receptor autoradiography; [^{125}I]PYY; [^{125}I][Leu^{31},Pro^{34}]PYY; Y5 'feeding' receptor (Widdowson, P.S. (758) 17)

Neuropeptide Y; Receptor autoradiography; Hypothalamus; Energy balance; Thermogenesis (Widdowson, P.S. (774) 1)

Glucose; Sulfonylurea; ATP sensitive K^+ channel; Diet induced obesity; Diabetes (Levin, B.E. (776) 146)

Object recognition
Vasopressin; Lateral septum; Social recognition; V1-receptor; Habituation; Rat (Everts, H.G.J. (760) 1)

Octadecaneuropeptide
GABA$_A$ receptor; Proopiomelanocortin; Diazepam-binding inhibitor; Pregnenolonesulfate; Trilostane; Pars intermedia (Garcia de Yebenes, E. (750) 277)

Octopamine
Peripheral nervous system; Gut; Earthworm; *Eisenia fetida*; Immunocytochemistry; HPLC (Csoknya, M. (778) 414)

Octreotide
Somatostatin receptor; Desensitization; Glial cell; Proliferation; Immunostaining (Feindt, J. (746) 309)

O_2 disappearance rate
Ca^{2+}-activated K^+ channel; Hypercapnia; Hypoxia; Tissue PO_2 (Osanai, S. (747) 324)

Odor
Piriform cortex; Olfaction; Fast wave; Antimuscarinic; Behavior (Zibrowski, E.M. (766) 39)

Odor coding
Olfaction; Odor recognition; Deoxyglucose (Slotnick, B.M. (762) 89)

Odor recognition
Olfaction; Odor coding; Deoxyglucose (Slotnick, B.M. (762) 89)

OFF pathway
γ-Aminobutyric acid (GABA); GABA$_A$ receptor; Amacrine cell; Bipolar cell; Retina; Neurotransmitter; Carp (Zhang, D.-Q. (759) 160)

6-OHDA
Apoptosis; PC12; Parkinson's disease; p53; Bax (Blum, D. (751) 139)

8-OH-DPAT
Epilepsy; Serotonin; Receptor subtype; Kindling; Seizure; DOI; Ketanserin (Wada, Y. (747) 338)

Stress; Restraint; Sensitization; Haloperidol; 5-HT$_{1A}$; Vacuous chewing movement; Catalepsy; Rat (Fdez. Espejo, E. (755) 351)

Circadian rhythm; Serotonin (5-HT) syndrome; Central 5-HT$_{1A}$ receptor; Intracerebroventricular administration, chronopharmacology (Nagayama, H. (756) 92)

Defensive rage behavior; Serotonin; Periaqueductal gray; 5-HT$_{1A}$ receptor; 5-HT$_{2/1C}$ receptor; Hypothalamus; Cat; DOI hydrochloride; p-MPPI (Shaikh, M.B. (765) 198)

Sleep; Waking; Microdialysis; Dorsal raphe nucleus; Serotonin 5-HT$_{1A}$ receptor (Bjorvatn, B. (770) 81)

Apoptosis; Neuronal cell; Nerve growth factor; Neuroprotection; Serum deprivation; 5-HT$_{1A}$ agonist (Ahlemeyer, B. (777) 179)

R-(+)-7-OH-DPAT
Extracellular dopamine level; Striatum; Accumbens; D_3 receptor; Locomotor activity; PD128907; PD151328; Haloperidol; Amphetamine (De Boer, P. (758) 83)

8-OH-DPAT binding
Serotonin; Receptor coupling; Antidepressant; 5-HT uptake inhibitor; SSRI; Gpp(NH)p; Hypothalamus (Li, Q. (769) 141)

Okadaic acid
Cytoskeleton; Tau protein; Calcium; Phosphatase 1/2A; Cortical neuron; Cerebellar granule cell (Adamec, E. (757) 93)

Old-world primate
Cholecystokinin; Nucleus of the solitary tract; Area postrema; Ventrolateral medulla; Vagus nerve; Catecholamine; Rhesus monkey; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

Olfaction
Immunocytochemistry; Dopamine; Substance P; FMRFamide; Brain; Crustacean (Schmidt, M. (752) 15)

Odor recognition; Odor coding; Deoxyglucose (Slotnick, B.M. (762) 89)

Amino acid; Bile salt; Zebrafish; Receptor site (Michel, W.C. (764) 179)

Piriform cortex; Fast wave; Odor; Antimuscarinic; Behavior (Zibrowski, E.M. (766) 39)

Olfactory bulb
Glucose-6-phosphate dehydrogenase; Antioxidant enzymes; Rat; Periglomerular cell (Ninfali, P. (744) 138)

Olfactory tubercle; Transsynaptic transfer; WGA-HRP; Artificial neural network; Image analysis; Olfactory cortex (Josephson, E. (744) 253)

Firing pattern; Oscillation; Glutamate; Prepotential; Self-excitation; Mitral cell; Rat (Chen, W.R. (745) 189)

Spontaneous activity; Burst discharge; Time-series analysis; Mitral/tufted cell; Cat (Motokizawa, F. (763) 285)

Borna disease virus; p24; Nested RT-PCR; Brain; Schizophrenia; Mood disorder (Haga, S. (770) 307)

c-Jun; Acetic acid; 1-Butanol; Periglomerular cell; Mitral cell; Tufted cell; Granule cell (Baba, K. (774) 142)

Olfactory cortex
Olfactory tubercle; Transsynaptic transfer; WGA-HRP; Artificial neural network; Image analysis; Olfactory bulb (Josephson, E. (744) 253)

Olfactory information processing
Neurotransmitter; Nitric oxide; Antennal lobe; Mushroom body; Insect nervous system (Seidel, C. (769) 273)

Olfactory neuron
Apoptosis; Neural stem cell; Aging (Fung, K.-M. (761) 347)

Olfactory pathway
Carcinus maenas; Crustacean; Adult neurogenesis; Brain; 5-Bromo-2′-deoxyuridine; BrdU; Neuron number (Schmidt, M. (762) 131)

Olfactory system
Calbindin D-28k; Calretinin; Neurocalcin; Parvalbumin (Crespo, C. (745) 293)

Amphibians; *Pipa*; Accessory olfactory system; NADPH-diaphorase; Lectin; Soybean agglutinin (Meyer, D.L. (762) 275)

Olfactory tubercle
Transsynaptic transfer; WGA-HRP; Artificial neural network; Image analysis; Olfactory cortex; Olfactory bulb (Josephson, E. (744) 253)

Acetylcholine release; Morphine; Kainic acid; Caudate-putamen; Ventral striatum; Dorsal striatum; Dopamine; Serotonin (Guevara, B.H. (749) 139)

Alcohol drinking; Alcohol-preferring rat; Dopamine ; 3-Methoxytyramine; Water drinking; Caudate-putamen; Nucleus accumbens (Honkanen, A. (774) 207)

Olidodendroglia
Cell cycle; Proliferation; Microglia; Astroglia; Neuroglia; Image analysis (Vela Hernández, J.M. (747) 130)

Oligodendrocyte
Knock-out mutant; Mouse; Myelin; Myelin-associated glycoprotein; Optic nerve (Bartsch, S. (762) 231)

de Olmos silver staining
Haemotoxylin and eosin; Heat shock protein immunocytochemistry; Neurodegeneration; Neurotoxicity; NMDA antagonists; Phencyclidine; Retrosplenial granular cortex (Corso, T.D. (752) 1)

Omission
Auditory cortex; Internal representation; Magnetoencephalography; Human; Brain (Raij, T. (745) 134)

Ontogeny
Active sleep; Sleep regulation; Neonate; Acetylcholine (Frank, M.G. (778) 64)

Oocyte
Lanthanum; Potassium current; Gating; Ion channel; *Xenopus*; Voltage-clamp (Tytgat, J. (749) 232)

Open field
Microdialysis; Formalin test; Restraint; Behavior; Corticosterone (Aloisi, A.M. (748) 219)

Chromosome; Light/dark apparatus; Mapping; [^{3}H]Ro 15-1788 (Clément, Y. (752) 127)

Open field test
Interleukin-1; Lipopolysaccharide; Sickness behavior; Sexual behavior; Partner preference; Gender difference; Rat (Avitsur, R. (773) 149)

Operant
Fixed interval schedule; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Dopamine; Nucleus accumbens; Dorsal striatum; Behavior (Cory-Slechta, D.A. (764) 253)

Operant learning
Hippocampus; Subiculum; Electrolytic lesion; Ibotenic acid lesion; Acquisition; Retention (Govindaiah, (745) 121)

Operant responding
Pharmacogenetics; Inbred strains; Cocaine plasma levels; Drug reinforcement; Vulnerability to drug abuse (Kosten, T.A. (778) 418)

Ophthalmoplegia
Human cranial nerve; Ganglioside composition; GQ1b; Miller Fisher syndrome; Guillain-Barré syndrome (Chiba, A. (745) 32)

Opiate
Heroin; Morphine; Prefrontal cortex; Nucleus accumbens; Electrophysiology; Drug of abuse (Chang, J.-Y. (754) 12)

Central nervous system; Metabolism; Reinforcement; Limbic system; Nucleus accumbens (Martin, T.J. (755) 313)

Hypotension; Hypertension; Bradycardia; Emotion; Analgesia; Visceral pain (Keay, K.A. (762) 61)

Morphine; Opioid; Drug tolerance; Drug withdrawal; Adenosine; Nucleoside transporter; Mouse brain (Kaplan, G.B. (763) 215)

Behavior; Cadmium; Fentanyl; Morphine; Place preference (Miller, D.K. (776) 162)

Opiate receptor
Cyanide generation; Rat pheochromocytoma cell; Rat brain; Cultured rat cerebellar granule cell (Borowitz, J.L. (768) 294)

Opiate receptor (mixed agonist/antagonist)
Analgesia; Buprenorphine; Naloxone benzoylhydrazone (Pick, C.G. (744) 41)

Opiate withdrawal
Locus coeruleus; Norepinephrine; Excitatory amino acid; Electrophysiology (Aston-Jones, G. (765) 331)

Opioid
Cholecystokinin octapeptide CCK-8; Acupuncture; Seizure; Neuropeptide (Zhang, L.-X. (745) 158)

Pro-opiomelanocortin; Cardiovascular regulation; Post-translational processing; Glycyl-L-glutamine; Dipeptide (Unal, C.B. (747) 52)

Opioid receptor; Autoradiography; Hibernation; Ground squirrel; Septohippocampal complex (Cui, Y. (747) 189)

Analgesia; Antinociception; Histamine; H_1 receptor; H_2 receptor; H_3 receptor; SKF92374; Cimetidine (Li, B.Y. (748) 168)

Antiopioid; Electrophysiology; γ-Aminobutyric acid; Interneuron; Morphine-modulating peptide (Miller, K.K. (750) 81)

Morphine; Midazolam; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Brain region; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

Dorsal raphe; Periaqueductal gray; Serotonergic; GABA; Interneuron; Intracellular, brain slice (Jolas, T. (755) 229)

Tolerance; Chronic pain; Allodynia; Intrathecal; Spinal cord (Yu, W. (756) 141)

Naloxone; Quaternary naloxone; Mu receptor; Delta receptor; Junco; DAMGO; DPDPE (Deviche, P. (757) 276)

Ventral tegmental area; Neuropeptide FF; Formalin test; Dopamine; Footshock stress; Analgesia (Altier, N. (758) 250)

Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Proliferation; Naltrexone; [Met^5]-enkephalin; Cell renewal; Eye (Zagon, I.S. (759) 92)

Antinociception; Substance P; *N*-methyl-D-aspartate; Naloxone; Capsaicin; Intrathecal administration; Spinal cord (Masuyama, T. (759) 241)

Nociceptin; Orphanin FQ; Hypothalamus; Dynorphin A; Receptor (Makman, M.H. (762) 247)

Jaw-opening reflex (JOR); Tooth-pulp; Transcranial electrical stimulation (TCES); Fentanyl; Rat (Alantar, A. (763) 14)

Hemorrhage; Hypovolemia; Morphine; Heart rate; Bradycardia; Blood pressure; Central nervous system (Ohnishi, M. (763) 39)

Morphine; Opiate; Drug tolerance; Drug withdrawal; Adenosine; Nucleoside transporter; Mouse brain (Kaplan, G.B. (763) 215)

Sminthopsis crassicaudata; Palatability; Naloxone; Naltrindole; Nor-binaltorphimine (Hope, P.J. (764) 39)

Endogenous analgesia; Ultrastructure; Glutamate; Unmyelinated axon (Coggeshall, R.E. (764) 126)

Endotoxin; Hyperalgesia; Inflammatory pain; c-fos protein; Pain test; Dorsal horn (Saadé, N.E. (769) 57)

Lactation; Naltrexone; Opioid mRNA; Arcuate nucleus; Pituitary; Rat (Kim, E.-M. (769) 303)

Promoter; Receptor; Transcription (Liang, Y. (769) 372)

Neurotensin; Periaqueductal gray matter; γ-Aminobutyric acid; Microdialysis; Rat (Stiller, C.-O. (774) 149)

Morphine; Midazolam; Benzodiazepine; Met-enkephalin; Tolerance; Brain region; Spinal cord; Peripheral tissue; Central nervous system (Tejwani, G.A. (775) 119)

β-Endorphin; Hypothalamic–pituitary–adrenal axis; Epinephrine; Norepinephrine; Naloxone; Restraint stress (Yamauchi, N. (777) 140)

δ Opioid
BW 373U86; Electroencephalography; Hippocampus; Naltrindole; θ Activity (Marrosu, F. (776) 24)

Opioid agonist
Antinociception; Analgesia; Anterior pretectal nucleus; Serotonergic agonist; Tail-flick (Mamede Rosa, M.L.N. (757) 133)

Opioid analgesia
Estrogen; Progesterone; Spinal cord (Dawson-Basoa, M. (750) 48)

Pregnancy; Estrogen; Progesterone; Spinal cord; Gender (Dawson-Basoa, M. (757) 37)

Parasite; Behavior; Analgesia; Predator induced analgesia; Non-opioid analgesia; NMDA mechanism; Stress induced analgesia; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Sex difference; Predator-induced analgesia; Non-opioid analgesia; NMDA mechanism; Stress induction; Analgesia; κ opiate (Kavaliers, M. (768) 30)

Opioid binding
Prokekephalin A; Leech; Mussel; δ_2 opioid receptor; Met-enkephalin (Salzet, M. (768) 224)

Opioid mRNA
Opioid; Lactation; Naltrexone; Arcuate nucleus; Pituitary; Rat (Kim, E.-M. (769) 303)

Opioid peptide
Norepinephrine; Inhibitory amino acid; Dorsal medulla (Van Bockstaele, E.J. (746) 171)

Immunocytochemistry; Recurrent seizure; Epilepsy; Hippocampal plasticity (Simpson, J.N. (747) 318)

Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Brain region; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

Opioid receptor
Opioid; Autoradiography; Hibernation; Ground squirrel; Septohippocampal complex (Cui, Y. (747) 189)

Synaptogenesis; Long-term potentiation; Mossy fiber-CA3; Timm's stain; Hippocampus (Escobar, M.L. (751) 330)

Calcium channel; Calcium current; Basal forebrain; Acutely dissociated neuron; Cholinergic (Soldo, B.L. (758) 118)

Enkephalin; Dynorphin-A; DPDPE; DAMGO; DRG neuron; $GABA_A$ receptor (Xi, Z.-X. (758) 163)

Transmitter release; Calcium channel; Dopamine; Neuroblastoma; Pertussis toxin (Keren, O. (764) 277)

μ-Knockout; Transgenic mouse; *MOR* gene; Receptor, μ-, δ-, κ_1- and κ-; Autoradiography; Opioid receptor mapping; Gene deletion (Kitchen, I. (778) 73)

δ Opioid receptor
Conditioned place preference; Reward; Dopamine turnover; Mesolimbic dopamine system (Suzuki, T. (744) 327)

Antinociception; 7-Benzylidinenaltrexone (BNTX); Naltriben (NTB); Spinal cord; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α (Hammond, D.L. (765) 177)

Ethanol; Forskolin; DADLE; Cyclic AMP; Striatum (Shen, J. (770) 65)

Brainstem; In vitro; Newborn rat; μ-Opioid receptor; κ-Opioid receptor; Respiration (Takita, K. (778) 233)

δ_1 Opioid receptor
Food deprivation; Glucoprivic intake; Palatability; Ventral tegmental area; μ Opioid receptor; κ Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (767) 8)

δ_2 Opioid receptor
Food deprivation; Glucoprivic intake; Palatability; Ventral tegmental area; μ Opioid receptor; κ Opioid receptor; δ_1 Opioid receptor (Ragnauth, A. (767) 8)

κ-Opioid receptor
Ibogaine; Noribogaine; Morphine; *N*-Methyl-D-aspartate receptor; Addiction; Drug self-administration; In vivo microdialysis (Glick, S.D. (749) 340)

Food deprivation; Glucoprivic intake; Palatability; Ventral tegmental area; μ Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (767) 8)

Brainstem; In vitro; Newborn rat; μ-Opioid receptor; δ-Opioid receptor; Respiration (Takita, K. (778) 233)

μ-Opioid receptor
Dopamine release; AF64-A; Methoctramine; Rat striatum; Microdialysis; γ-Aminobutyric acid (GABA) (Dourmap, N. (749) 295)

Locus coeruleus; Morphine; Enkephalin; Monkey; Immunohistochemistry (Chen, J. (755) 326)

Food deprivation; Glucoprivic intake; Palatability; Ventral tegmental area; κ Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (767) 8)

Brainstem; In vitro; Newborn rat; δ-Opioid receptor; κ-Opioid receptor; Respiration (Takita, K. (778) 233)

σ Opioid receptor
[^{3}H]Nemonapride; [^{3}H]Raclopride; PPAP; Dopamine D_4 receptor (Tang, S.W. (765) 7)

Opioid receptor agonist
Ibogaine; Antinociception; Tolerance; Morphine; U-50,488H; DPDPE; Mouse (Cao, Y.-J. (752) 250)

δ_1-, δ_2-Opioid receptor agonist
[D-Pen^2,D-Pen^5]enkephalin; [D-Ala^2,Glu^4]deltorphin II; Analgesia; Tolerance; Brain receptor (Zhao, G.-M. (745) 243)

κ-Opioid receptor agonist
U-50,488H; Analgesia; Hypothermia; Tolerance; NMDA receptor antagonist; LY235959; Competitive antagonism (Bhargava, H.N. (747) 246)

U-50,488H; Tolerance; [^{3}H]MK-801 binding; Brain region; Spinal cord; Rat (Bhargava, H.N. (749) 347)

Opioid receptor antagonist
PET; Imaging; Rat brain; Dopamine receptor binding; Nalmefene (Unterwald, E.M. (775) 183)

Opioid receptor-like$_1$ receptor
Nociceptin; Carageenan test; Thermal hyperalgesia; Spinal facilitation (Yamamoto, T. (754) 329)

Opioid receptor mapping
μ-Knockout; Transgenic mouse; *MOR* gene; Opioid receptor; Receptor, μ-, δ-, κ_1- and κ-; Autoradiography; Gene deletion (Kitchen, I. (778) 73)

Opioid receptor subtype
Enkephalin; Radioligand binding; Eyestalk ganglion; Crustacea (Hanke, J. (744) 279)

Opioid tolerance and dependence
Excitatory opioid receptor antagonist; Naltrexone; Etorphine; Tail-flick assay; Withdrawal jumping assay (Shen, K.-F. (757) 176)

Optical dissector
Ibogaine; Purkinje cell; Chronic toxicity (Helsley, S. (759) 306)

Optical method
Hemoglobin oxygenation; Dementia; Aging; Blood flow; Neurodegeneration (Hock, C. (755) 293)

Optic nerve
Knock-out mutant; Mouse; Myelin; Myelin-associated glycoprotein; Oligodendrocyte (Bartsch, S. (762) 231)

Spinal cord; Sciatic nerve; Immunohistochemistry; Calcium; Myelin; Node of Ranvier (Steffensen, I. (776) 1)

Optic terminal
Immunocytochemistry; Glutamate; Degeneration; Glia (Repérant, J. (761) 321)

Optic tract lesion
Nitric oxide synthase; Development; Retina; Cell death; Rat (Patel, J.I. (761) 156)

Oralis subnucleus
Rat trigeminal nucleus; Wind-up; MK-801; *N*-Methyl-D-aspartate; Nociception (Parada, C.A. (761) 313)

Organelle motion
Axonal transport; Dibutyryl cyclic AMP; Hippocampus; Cell culture; Neurotransmitter (Hashimoto, Y. (755) 343)

Organic acidemias
Methylmalonic acid; Neurotoxicity; Cytoskeletal protein; Phosphorylation (De Mattos-Dutra, A. (763) 221)

Organic anion transport
Spreading depression; Probenecid; Microdialysis; *N*-Methyl-D-aspartate; DC potential; Kynurenic acid; Lactate (Taylor, D.L. (764) 117)

Organophosphorus
Thyrotropin-releasing hormone (TRH); Soman; Seizure; Metabolism; Acetylcholine; Excitotoxicity (Kubek, M.J. (747) 328)

Organotypic culture
HIV; AIDS; Central nervous system; Microglia; Astrocytes; Receptor; Endocytosis (Hao, H.-N. (764) 149)

Organotypic hippocampal culture
Excitotoxicity; Neuron/glia interaction; Adenosine deaminase; Neuroprotection; Ischemia; NOS inhibitor (Barth, A. (762) 79)

Organotypic slice culture
Ischaemia; Hippocampus; Hypoxia; Glutamate (Pringle, A.K. (755) 36)

Organum vasculosum laminae terminalis (OVLT)
Fos; Drinking; Subfornical organ; AT_1 antagonist; Angiotensin; Converting enzyme inhibitors (McKinley, M.J. (747) 43)

Prostaglandin E_2 (PGE_2); Macrophage inflammatory protein-1β (MIP-1β); Chemokine; Fever; Hypothalamus; Preoptic area (Armengol, J.A. (748) 245)

Ornithine decarboxylase
Newborn; Brain slice; Free radicals; Malonaldehyde (Saito, K. (763) 232)

Polyamine immunocytochemistry; Monoclonal antibody; Spermine; Spermidine (Fujiwara, K. (767) 166)

Orofacial motor cortex
Superior colliculus; Parvicellular reticular formation; Orofacial movement; Rat (Tsumori, T. (755) 151)

Orofacial movement
Orofacial motor cortex; Superior colliculus; Parvicellular reticular formation; Rat (Tsumori, T. (755) 151)

Orphanin FQ
Nociceptin; Hypothalamus; Dynorphin A; Opioid; Receptor (Makman, M.H. (762) 247)

Nociceptin; LC132 receptor; Guinea pig ileum; Mouse vas deferens; Naloxone; Dynorphin $A(1-13)NH_2$; [D-Pen^2,D-Pen^5]Enkephalin (Zhang, G. (772) 102)

Oscillation
Firing pattern; Glutamate; Prepotential; Self-excitation; Mitral cell; Olfactory bulb; Rat (Chen, W.R. (745) 189)

Medulla; Pain; Microstimulation; Spike train; Autocorrelogram (Hentall, I.D. (745) 348)

Cation current; Pore protein; Adenosine triphosphate synthase subunit c (McGeoch, J.E.M. (766) 188)

Cytoplasmic calcium ($[Ca^{2+}]_i$); Synaptic transmission; Calcium ion channel; Potassium ion channel; Glutamate receptor; GABA receptor; Neuronal network (Wang, X.-s. (767) 239)

Cortical metabolism; Cortical blood volume; Cytochrome aa_3; Spectrophotometry; Interhemispheric (Vern, B.A. (775) 233)

Osmolality
Furosemide; Mannitol; Kainic acid; Seizure; Diuretics (Stringer, J.L. (745) 328)

Osmoregulation
Kidney; Sympathetic nervous system; Visceral receptor; Autonomic nervous system; Circumventricular organ; Limbic system; Cardiovascular regulation (Solano-Flores, L.P. (753) 102)

Osmotic challenge
Stress; Neuroendocrine function; Reproduction; Hypothalamus (Woodside, B. (752) 319)

Osmotic effect
Hypertonia; Cell volume; Perforated patch clamp; Whole-cell patch clamp; Ion channel; Voltage-gated current; Synaptic current; Excitatory postsynaptic current; Freshly isolated cell (Huang, R. (748) 157)

Osmotic pump
Parkinson's disease; 3,4-Dimethoxyphenylethylamine; Tetrahydropapaverine; MPP^+; Dopamine; Tetrahydroisoquinoline (Koshimura, I. (773) 108)

Osmotic stimulation
Supraoptic nucleus; Immunocytochemistry; Immediate early gene; Transcription factor; Vasopressin; Oxytocin; Stress (Wang, K. (746) 117)

Osphradium
Lymnaea stagnalis; Sensory neuron; γ-Aminobutyric acid (GABA); FMRFamide; Serotonin; Electrophysiology; Transmitter interaction (Nezlin, L. (772) 217)

Otoacoustic emission
Reversible ischemia; Reperfusion; Blood flow; Cochlea (Mom, T. (751) 20)

Otolith
Fos; Vestibular; Inferior olive; Semicircular canal (Marshburn, T.H. (761) 51)

Ouabain
Anteroventral third ventricle; Excitotoxic lesion; Cerebrospinal fluid sodium; Angiotensin II (Veerasingham, S.J. (749) 157)

Alzheimer's disease; Apoptosis; Diethyldithiocarbamate; Dihydrorhodamine; Hippocampal neuron; 4-Hydroxynonenal; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Superoxide anion radical (Mark, R.J. (756) 205)

Ouabain affinity
Na^+,K^+-ATPase; Ouabain site; α Isoform; Focal cerebral ischaemia (Jamme, I. (774) 123)

Ouabain site
Na^+,K^+-ATPase; α Isoform; Ouabain affinity; Focal cerebral ischaemia (Jamme, I. (774) 123)

Outer segment renewal
Retinal photoreceptor; Response gradient; *Xenopus laevis* (Leibovic, K.N. (750) 321)

Ovariectomized rat
$5\text{-}HT_3$ receptor; Lordosis behavior; Lordosis quality; Ventromedial nucleus; Proestrous rat (Maswood, N. (769) 13)

Ovulation
Steroid hormone; Immediate–early gene protein; Estrogens; Hypothalamus; Gonadotrophin releasing hormone (Le, W.-W. (778) 272)

OX-42
Astroglia; Microglia; Motoneuron; Sensory ganglion; Nerve injury; Spinal cord; GFAP (Molander, C. (747) 122)

Astrocyte; Brain; Glial fibrillary acidic protein; Ischemia; Microglia; 5′-Nucleotidase (Braun, N. (766) 213)

Middle cerebral artery occlusion and reperfusion; 4-Hydroxy-2-nonenal; Lipid peroxidation; Microglia; Immunohistochemistry; Neuronal death (Yoshino, H. (767) 81)

Oxidation response
LDL; Oxidized LDL; CNS neuron; Neurotoxicity; Apoptosis; Scavenger receptor (Sugawa, M. (761) 165)

Oxidative damage
Ischemia; Evoked potential; Anoxia; Hippocampus (Pérez-Pinzón, M.A. (754) 163)

Iron histochemistry; Plaque; Macrophage; Microglia; Demyelination (LeVine, S.M. (760) 298)

Oxidative injury
Neuronal DNA damage; Neurofibrillary tangle; Nitrotyrosine; Neuropathology; Alzheimer's disease (Su, J.H. (774) 193)

Oxidative metabolism
Cerebral ischemia; Baboon; Infarction; Reperfusion; Neuroprotection; Stroke; Positron emission tomography (Touzani, O. (767) 17)

Oxidative stress
MPTP; Glutathione; Reactive oxygen species; Brain slice; Brain; Neurotoxicity; Complex I (Sriram, K. (749) 44)

Transferrin receptor; Iron; Substantia nigra; Ventral tegmental area; Parkinson's disease; Cell death; Autoradiography (Faucheux, B.A. (749) 170)

Menadione; Thiol oxidation; Tau dephosphorylation; Alzheimer's disease; Neuroblastoma culture (Ko, L.-w. (760) 118)

Brain neuron; Glutathione; Intracellular Ca^{2+}; Kainate (Oyama, Y. (760) 277)

β-Amyloid; Lazaroid; Cortical cell (Lucca, E. (764) 293)

Glutathione; Cell death; Cystine; Glutamate; Mouse trisomy 16; Down syndrome; Alzheimer's disease (Stabel-Burow, J. (765) 313)

Melatonin; Dopamine neuron; Tissue culture; MPP^+; Oxyradical (Iacovitti, L. (768) 317)

Neuropsin; Serine protease; Learning impairment; Avoidance; Hippocampus; Diethyldithiocarbamate (Akita, H. (769) 86)

Mn-SOD; Mercury; Mouse brain; Dexamethasone; Post-transcriptional modification (Kumagai, Y. (769) 178)

Alzheimer's disease; Calcium; Free radical; Ion current; Vascular amyloid (Mattson, M.P. (771) 147)

Parkinson's disease; Rotenone; Antioxidant; MK-801; CNQX (Nakao, N. (777) 202)

Oxidized LDL
LDL; CNS neuron; Oxidation response; Neurotoxicity; Apoptosis; Scavenger receptor (Sugawa, M. (761) 165)

Oxiracetam
DBA mouse; C57 mouse; Aniracetam; AMPA antagonist; NMDA antagonist; Contextual fear conditioning (Lu, Y. (768) 197)

Oxotremorine
Dynorphin; Substance P; Enkephalin; Scopolamine; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (748) 62)

Oxygen
Erythropoietin; Insulin; Insulin-like growth factor-I; Insulin-like growth factor-II astrocyte; mRNA (Masuda, S. (746) 63)

Cortical spreading depression; Coupling; Glucose; Cytochrome *aa*3; Hemoglobin; Hypercapnia; Laser Doppler; Near-infrared spectroscopy; Rat; Whisker barrel (Wolf, T. (761) 290)

Oxygenation
Focal cerebral ischemia; Magnetic resonance imaging; Diffusion; Perfusion; Rat brain (Dijkhuizen, R.M. (750) 161)

Oxygen free radical
Brain dialysis; Methylpyridinium; Azide; NMDA channel; Nitric oxide synthase Parkinson's disease; Alzheimer's disease (Smith, T.S. (765) 183)

Oxygen metabolism
Positron emission tomography; Blindness; Visual cortex; Plasticity; Synapse (De Volder, A.G. (750) 235)

Oxygen radical
Nitric oxide; Rat; Acetylcholine; Bradykinin; Nitroglycerin; Brain; Superoxide anion (Mayhan, W.G. (760) 204)

Oxyradical
Melatonin; Oxidative stress; Dopamine neuron; Tissue culture; MPP^+ (Iacovitti, L. (768) 317)

Oxytocin
Supraoptic nucleus; Immunocytochemistry; Immediate early gene; Transcription factor; Vasopressin; Osmotic stimulation; Stress (Wang, K. (746) 117)

c-Fos; Static muscle contraction; Vasopressin; Hypothalamus; Exercise pressor reflex; Cat (Li, J. (752) 45)

Hypothalamus; Neurohypophysis; Brattleboro rat; Immunocytochemistry (Ang, C.W. (765) 13)

Oxytocin neuron
Vasopressin neuron; Glutamate receptor; NMDA; AMPA; Supraoptic nucleus (Richardson, C.M. (767) 158)

P

p53
6-OHDA; Apoptosis; PC12; Parkinson's disease; Bax (Blum, D. (751) 139)

Deafferentation; Degeneration; Apoptosis (Isono, M. (765) 319)

Knockout mouse; Methamphetamine; Neurotoxicity; Serotonin transporter (Hirata, H. (768) 345)

ALZ-50; Apoptosis; c-*fos*; Cell death (Miller, M.W. (769) 233)

p24
Borna disease virus; Nested RT-PCR; Brain; Olfactory bulb; Schizophrenia; Mood disorder (Haga, S. (770) 307)

rt-PA
Thrombolysis; Stroke; Neuroprotection; Eliprodil (Lekieffre, D. (776) 88)

Thromboembolic stroke; MCA occlusion; Rat; Thrombolysis; rCBF (Busch, E. (778) 16)

Pacemaker
Suprachiasmatic nucleus; Circadian rhythm; Planar electrode array (Herzog, E.D. (757) 285)

PAG
NSAID; Dipyrone; Analgesia; Dorsal horn; Sensory neuron; Descending inhibition (Vanegas, H. (759) 171)

Pain
Parabrachial nucleus; Kölliker-Fuse nucleus; Thalamus; Spinal cord; Axon collateral; Retrograde labeling; Rat (Li, J.-L. (745) 321)

Medulla; Microstimulation; Spike train; Oscillation; Autocorrelogram (Hentall, I.D. (745) 348)

Prostaglandin E_2; Wide dynamic range neuron; Hyperalgesia; Analgesia; Central nervous system; Brain (Oka, T. (749) 354)

Brain-derived neurotrophic factor; Nerve growth factor; mRNA; Dorsal root ganglion; Peripheral inflammation; In situ hybridization (Cho, H.-J. (749) 358)

Analgesia; Capsaicin; C-fiber; Galanin; Galanin message associated peptide; Resiniferatoxin (Xu, X.-J. (752) 52)

Tachykinin; Nociception; C fiber; A-delta; Thermal; RIA (Zachariou, V. (752) 143)

Hybridization, in situ; Immunohistochemistry; Nerve injury; Neuropeptide (Kerekes, N. (754) 131)

Spinal trigeminal nucleus; Caudalis; Parabrachial; Medulla (Allen, G.V. (754) 269)

Nociception; Formalin; Neonatal capsaicin; c-Fos; Blood pressure; Heart rate; Rat (Peterson, M.A. (755) 9)

Electrophysiology; Nociception; Modulation; Visceral sensation; Cortex (Brüggemann, J. (756) 297)

Nociception; Electrical stimulation; Spinal cord (Romita, V.V. (761) 192)

Catecholamine; Peripheral sensitization; Ultrastructure (Carlton, S.M. (763) 271)

Brain-derived neurotrophic factor; Nerve growth factor; Dorsal root ganglion; Spinal cord; Peripheral inflammation; Immunohistochemistry (Cho, H.-J. (764) 269)

Periaqueductal gray; Medial preoptic nucleus; Nitric oxide; Nitric oxide synthase; 7-Nitro indazole; Blood pressure (Hall, C.W. (765) 208)

Magnetic field; Nociception; Pain-related somatosensory evoked potential; Stress-induced analgesia; Habituation (Sartucci, F. (769) 362)

Hyperalgesia; Neuropathic pain; Rat; Spinalization; Sciatic nerve (Kauppila, T. (770) 310)

QX-314; Lidocaine; Dorsal root ganglia; Dorsal horn; Neuroma; Vagus nerve; Heart rate; Blood pressure; Local anesthetic; Na^+ channel blocker (Omana-Zapata, I. (771) 228)

Prostaglandin E_2; Hyperalgesia; Analgesia; 17-Phenyl-ω-trinor prostaglandin E_2; MB28767; Central nervous system (Oka, T. (771) 278)

Substance P; NMDA receptor; Dorsal horn; Primary afferent; Nociception (Aicher, S.A. (772) 71)

Second messenger; Hyperalgesia; Protein kinase (Sluka, K.A. (772) 82)

Inflammation; Hyperalgesia; Nociceptor; Spinal neuron (Randich, A. (772) 135)

Metabotropic glutamate receptors; Spinal cord; Analgesia; Nociception (Young, M.R. (777) 161)

Inflammation; Inhibition; Hyperalgesia; Dorsal horn; Disinhibition (Traub, R.J. (778) 34)

Pain facilitation
Hyperalgesia; Spinal cord; Rat; Nucleus tractus solitarius; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Formalin; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Pain-related behavior
Artificial ureteral calculosis; Estrus; Rat (Giamberardino, M.A. (774) 234)

Pain-related somatosensory evoked potential
Magnetic field; Pain; Nociception; Stress-induced analgesia; Habituation (Sartucci, F. (769) 362)

Pain sensory cell
Dorsal root ganglion; Bradykinin; Prostaglandin E_2; Capsaicin; C-fiber (Noda, K. (751) 348)

Pain test
Endotoxin; Hyperalgesia; Inflammatory pain; c-fos protein; Opioid; Dorsal horn (Saadé, N.E. (769) 57)

Paired helical filament
Transglutaminase; Human recombinant tau htau40; Neurofibrillary tangle; Insoluble filament (Appelt, D.M. (745) 21)

Alzheimer's disease; Neurofibrillary tangle; Microtubule-associated proteins; MAP-2; MARK; Cytoskeleton (Jenkins, S.M. (767) 305)

Ultrastructure; Alzheimer disease; Corticobasal degeneration; Vanadate; Transmission electron microscopy (Tracz, E. (773) 33)

Paired pulse
Glutamate metabotropic receptor; Long term potentiation; Knock outs; Mouse; In vivo (Bordi, F. (761) 121)

Paired-pulse depression
Dentate gyrus; Hippocampus; Low-frequency stimulation; Seizure; Kindling; Perforant path (Emori, K. (776) 250)

γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Inhibition; Short-term plasticity; Superior colliculus; Transmitter release (Platt, B. (777) 131)

Paired-pulse facilitation
Dentate gyrus; Applied field; Action potential; Synaptic plasticity (Foster, B. (758) 59)

Proline; Synaptic plasticity; Long-term potentiation; Hippocampus; NMDA receptor; Hyperprolinemia (Cohen, S.M. (761) 271)

Proline; Synaptic plasticity; Hippocampus; Glutamate; Aspartate; Transmitter release; Hyperprolinemia (Cohen, S.M. (769) 333)

Presynaptic inhibition; Excitatory amino acid; Purinergic (Flagmeyer, I. (778) 178)

Paired-pulse inhibition
Traumatic brain injury; Hippocampus; Dentate gyrus; γ-Aminobutyric acid; Rat (Reeves, T.M. (757) 119)

'Paired-pulse' plasticity
Hippocampus; Rat; Metabotropic glutamate receptor; Medial perforant path; Lateral perforant path; (1*S*,3*R*)-1-Aminocyclopentane-1,3-dicarboxylic acid; L(+)-2-Amino-4-phosphonobutyric acid (Dietrich, D. (767) 220)

Palatability
Sminthopsis crassicaudata; Opioid; Naloxone; Naltrindole; Nor-binaltorphimine (Hope, P.J. (764) 39)

Food deprivation; Glucoprivic intake; Ventral tegmental area; μ Opioid receptor; κ Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (767) 8)

Palmitic acid
Neurotoxicity; Autoradiography; Fatty acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Glial fibrillary acidic protein; Seizure (Appel, N.M. (754) 55)

Pancreas
Peptide YY; Neuropeptide Y; Receptor; Brainstem; Limbic; Hypothalamus; Vagus; Rat (Whitcomb, D.C. (760) 137)

Alzheimer's disease; Amyloid β protein precursor; Amyloid β protein; Cathepsin D; Lysosome; Transgenic mouse (Kawarabayashi, T. (765) 343)

Adrenal gland; Autonomic nervous system; Glucagon; Glucose metabolism; Insulin (Jansen, A.S.P. (766) 29)

Panic
Animal model; Blood pressure; γ-Aminobutyric acid (GABA); Glutamate; Heart rate; *N*-Methyl-D-aspartate (NMDA); Non-NMDA; Stress (Sajdyk, T.J. (764) 262)

Panulirus
Chemoreception; Mixture; Binding; Coding; Crustacea (Burgess, M.F. (771) 292)

Papaverine
Parkinson's disease; Tetrahydropapaverine; Dimethoxyphenylethylamine (DMPEA); 1-Methyl-4-phenylpyridinium ion (MPP^+); Ventral mesencephalic-striatal co-culture (Goto, K. (754) 260)

Parabrachial
Pain; Spinal trigeminal nucleus; Caudalis; Medulla (Allen, G.V. (754) 269)

Parabrachial neuron
Fetus; Breathing movement; Hypoxia; Fos immunohistochemistry (Breen, S. (748) 107)

Parabrachial nucleus
Kölliker-Fuse nucleus; Thalamus; Spinal cord; Axon collateral; Pain; Retrograde labeling; Rat (Li, J.-L. (745) 321)

Bed nuclei of the stria terminalis; Conditioned emotional response; Corticotropin-releasing hormone; γ-Aminobutyric acid (GABA); Long-term modulation; Neuropeptide (Petrovich, G.D. (763) 247)

p-Chlorophenylalanine; 5-Hydroxytryptamine; Bed nucleus; Caudate–putamen; Thalamus; Amygdala; Nucleus of the solitary tract (Javed, A. (774) 94)

Parabrachial nucleus of the pons
Taste; Nucleus of the solitary tract; Electrophysiology; Neural code; Rat (Di Lorenzo, P.M. (763) 167)

Parachlorophenylalanine
Serotonin; Synaptogenesis; S-100β; Learning/memory; Schizophrenia; Hippocampus (Mazer, C. (760) 68)

Paradoxical sleep
Stress; Slow-wave sleep; Radioimmunoassay; Corticotropin-like intermediate lobe peptide, $ACTH_{18-39}$; Rat (Bonnet, C. (751) 54)

Parallel fiber
Glutamate receptor channel δ2 subunit; Purkinje cell; Granule cell; Weaver mouse; Reeler mouse; In situ hybridization; Immunohistochemistry (Takayama, C. (745) 231)

Potassium channel; Nonpyramidal cell; Interneuron; Channel rings; Immunofluorescence; Parvalbumin; Calbindin; Ultrastructural localization (Sekirnjak, C. (766) 173)

Parasite
Behavior; Analgesia; Predator induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induced analgesia; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Parasympathetic
Phenylephrine; Sodium nitroprusside; Lidocaine; Sympathetic; Baroreflex sensitivity (Saleh, T.M. (767) 201)

Parasympathetic nervous system
Autonomic nervous system; Dorsal vagal nucleus; Nucleus ambiguus; Nucleus tractus solitarius; Periaqueductal gray matter (Farkas, E. (764) 257)

Parasympathetic pathway
Sphenopalatine ganglion; Brainstem; Retrograde tracing; Nitric oxide synthase; Choline acetyltransferase (Zhu, B.-S. (769) 168)

Parasympathetic / sympathetic interaction
Single unit activity; Medulla; Glutamate (McKitrick, D.J. (770) 213)

Parathyroid
Calcium; Calcium receptor; Calcium sensing receptor; G protein coupled receptor; Receptor localization; Subfornical organ; Fluid homeostasis; Ion homeostasis (Rogers, K.V. (744) 47)

Paraventricular nucleus
Corticotropin-releasing factor; Ethanol; Hypothalamic-pituitary-adrenal axis; Supraoptic nucleus; Amygdala (Ogilvie, K.M. (744) 83)

Hypothalamus; Suprachiasmatic nucleus; Vasoactive intestinal polypeptide; Spinal cord; Light; Melatonin (Teclemariam-Mesbah, R. (748) 71)

Immunocytochemistry; Angiotensin receptor; Supraoptic nucleus; Confocal microscopy; Cytoplasmic staining; Rat (Pfister, J. (754) 307)

Area postrema; Nucleus of the solitary tract; Arcuate nucleus; Ingestive behavior; Food intake; Diet selection (Edwards, G.L. (755) 84)

Neuropeptide Y; PreproNPY mRNA; Hypothalamus; Arcuate nucleus; Streptozotocin; Diabetes; Hyperphagia (Sahu, A. (755) 339)

Corticosterone; ACTH; Suprachiasmatic nucleus; Adrenal cortex; Circadian; Stress (Buijs, R.M. (758) 229)

Thyrotropin releasing hormone (TRH); Biosynthesis; Processing; Convertase; PC1; PC2; Hybridization, in situ; Hypothalamus (Sánchez, E. (761) 77)

Stress ulcer; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

Stress; Estrogen; Androgen; Proenkephalin; Hybridization, in situ; Corticotropin releasing factor; C-*fos*; Hypertonic saline; Novelty heteronuclear RNA (Yukhananov, R.Y. (764) 109)

Corticotropin releasing hormone; Adrenocorticotropic hormone; Corticosterone; Corticosteroid receptor; Hippocampus; C-*fos* (Takemura, T. (767) 181)

NGFI-B; c-*fos*; Rat; Lactation; Stress; Lateral septum; Amygdala (Da Costa, A.P.C. (770) 151)

Lithium; Arginine vasopressin; Supraoptic nucleus; In situ hybridization; Rat (Anai, H. (772) 161)

Nitric oxide; NADPH-diaphorase; NOS; Medial amygdala; Cholera toxin B subunit; Rat (Tanaka, M. (777) 13)

Neuropeptide Y; Galanin; Insulin; Hypothalamus; Arcuate nucleus (Wang, J. (777) 231)

Paraventricular nucleus of the hypothalamus
CRF antagonist; Fos; Capsaicin; Abdominal surgery; Nucleus tractus solitarii; Supraoptic nucleus (Bonaz, B. (748) 12)

Paraventricular thalamic nucleus
Bicuculline; Dopamine; Immediate early genes; Mediodorsal thalamic nucleus; Motor activity; Noradrenaline; Ventral tegmental area (Bubser, M. (749) 214)

Circadian rhythm; Food entrainment; Immediate early gene; Suprachiasmatic nucleus; Intergeniculate leaflet (Challet, E. (770) 228)

Pargyline
Reserpine; Neurotransporter; Non-exocytotic release; Noradrenaline (Yamazaki, T. (761) 329)

Parkinsonism
Interferon-α; Dopamine; Turnover; Depression; Suicide (Shuto, H. (747) 348)

Parkinsonism-dementia
Cell culture; RNA; Alzheimer's disease; Amyotrophic lateral sclerosis; Guam; Axonal transport; Neurotoxin (Wakayama, I. (748) 237)

Parkinson's disease
Glial cell line-derived neurotrophic factor; Dopamine; Neurotrophic factor; Basal ganglia; Alzheimer's disease; Cholinergic function (Lapchak, P.A. (747) 92)

Transferrin receptor; Iron; Substantia nigra; Ventral tegmental area; Oxidative stress; Cell death; Autoradiography (Faucheux, B.A. (749) 170)

6-Hydroxydopamine lesion; Transplantation; Behavioral test; Rotational behavior (Rozas, G. (749) 188)

Amantadine; Inhibition; Phosphodiesterase; Calmodulin (Kakkar, R. (749) 290)

Dopamine; Striatum; Substantia nigra; Nociception; Central pain; Deafferentation pain; Frontal lobe (Saadé, N.E. (751) 1)

6-OHDA; Apoptosis; PC12; p53; Bax (Blum, D. (751) 139)

Mitochondrion; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Basal ganglion; Complex I; NADPH-diaphorase; Substantia nigra (Ferrante, R.J. (753) 157)

Papaverine; Tetrahydropapaverine; Dimethoxyphenylethylamine (DMPEA); 1-Methyl-4-phenylpyridinium ion (MPP^+); Ventral mesencephalic-striatal co-culture (Goto, K. (754) 260)

Long-latency stretch reflex; Cerebral evoked potential; Muscle stretch (Aminoff, M.J. (757) 254)

MPTP; Substantia nigra; Thalamus; Neuronal degeneration; Mice; Fluoro-Jade (Freyaldenhoven, T.E. (759) 9)

α_1-Antichymotrypsin polymorphism; ApoE genotype; Alzheimer's disease; Dementia; Genetic association (Yamamoto, M. (759) 153)

Dopamine; γ-Aminobutyric acid (GABA); Basal ganglia (Rohlfs, A. (761) 352)

DA agonist; Pramipexole; Anterior caudate; Type II neuron (Piercey, M.F. (762) 19)

Neurotoxin; Nigrostriatal system; Dopamine transporter (Disshon, K.A. (764) 9)

MPTP; Immediate-early gene; *Zif*268; D1 and D2 dopamine receptor; Supersensitivity (Smith, T.S. (765) 189)

Slow evolution of disease; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Monkey; Chronic model (Bezard, E. (766) 107)

Nigrostriatal; Dopamine; Dihydroxyphenylacetic acid; Neuroprotection (Dluzen, D. (767) 340)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); c-Jun; c-Fos; Apoptosis; Dopaminergic neuron (Nishi, K. (771) 133)

3,4-Dimethoxyphenylethylamine; Tetrahydropapaverine; MPP^+; Dopamine; Osmotic pump; Tetrahydroisoquinoline (Koshimura, I. (773) 108)

Dopamine; Tyrosine hydroxylase; Malonate; Cell loss; Substantia nigra; Striatum (Sonsalla, P.K. (773) 223)

Substantia nigra; Catecholamine; Hindered amine; Anti-oxidant (Masalha, R. (774) 260)

Apoptosis; In situ end labeling; Lewy body; Diffuse Lewy body disease; Neurodegeneration; Substantia nigra (Tompkins, M.M. (775) 24)

Mitochondria; Complex I inhibitor; Free radical; Apoptosis (Seaton, T.A. (777) 110)

Oxidative stress; Rotenone; Antioxidant; MK-801; CNQX (Nakao, N. (777) 202)

Neural transplantation; Double transplants; Fluorogold; Horseradish peroxidase (Mendez, I. (778) 194)

Paroxetine
Serotonin (5-HT); Fast cyclic voltammetry; Lateral geniculate nucleus; Electrical stimulation; 5-HT_{1B}; 5-HT_{1D}; 5-HT uptake (Davidson, C. (760) 238)

Paroxysmal dyskinesia
Movement disorder; Basal ganglia; Epilepsy; Motor system; Midbrain; Choreoathetosis; Neural activity (Gernert, M. (760) 102)

Parrot
Avian; Songbird; Auditory system; Field L; Nucleus basalis; Vocal learning (Farabaugh, S.M. (747) 18)

Avian; Nucleus basalis; Somatosensory; Tactile representation (Wild, J.M. (755) 137)

Pars intermedia
$GABA_A$ receptor; Proopiomelanocortin; Diazepam-binding inhibitor; Pregnenolonesulfate; Octadecaneuropeptide; Trilostane (Garcia de Yebenes, E. (750) 277)

Pars tuberalis
In situ hybridization; Melatonin; Melatonin receptor; RZRβ mRNA; Sensory system (Park, H.T. (747) 332)

Partial agonist
Schizophrenia; Antipsychotic; Neuroleptic; Tardive dyskinesia; *N*-Methyl-D-aspartate; Glutamate (Lidsky, T.I. (764) 46)

Partner preference
Interleukin-1; Lipopolysaccharide; Sickness behavior; Sexual behavior; Open field test; Gender difference; Rat (Avitsur, R. (773) 149)

Parvalbumin
Calbindin D-28k; Calretinin; Neurocalcin; Olfactory system (Crespo, C. (745) 293)

S100; Calbindin D-28k; Calretinin; Trigeminal ganglion; Dorsal root ganglion (Ichikawa, H. (748) 253)

Choline acetyltransferase; GABA; Septum; Diagonal band of Broca; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (753) 141)

Immediate-early gene; Calbindin; Epilepsy; Neocortex; Rat (Mihaly, A. (761) 135)

Double labeling; Calbindin; Tyrosine hydroxylase; γ-Aminobutyric acid; Colocalization (Völgyi, B. (763) 79)

GAD67; GAD65; GABA; Hippocampus; Mouse (Fukuda, T. (764) 237)

Potassium channel; Nonpyramidal cell; Interneuron; Channel rings; Parallel fiber; Immunofluorescence; Calbindin; Ultrastructural localization (Sekirnjak, C. (766) 173)

Calbindin D-28k; Jugular ganglion; Immunohistochemistry; Nodose ganglion; Petrosal ganglion; S100; Vagal afferent neuron (Ichikawa, H. (768) 349)

Calretinin; Immunohistochemistry; Incisor; Periodontal ligament; Ruffini-like ending; Trigeminal ganglion (Ichikawa, H. (770) 294)

Calbindin; Calretinin; Nicotine; α-Bungarotoxin; Neurotransmitter (Araki, C.M. (774) 250)

Parvicellular reticular formation
Orofacial motor cortex; Superior colliculus; Orofacial movement; Rat (Tsumori, T. (755) 151)

Substantia nigra pars reticulata; Motor trigeminal nucleus; Monosynaptic contact; Rat (Yasui, Y. (775) 219)

Parvocellular reticular nucleus
Synapse; Axo-axonic; Inhibition; Trigeminal motor nucleus; Peritrigeminal nucleus; Immunogold; Electron microscopy (Yang, H.-W. (749) 301)

Passive avoidance
Morris water task; Nicotinic receptor; *Xenopus* oocyte (Meyer, E.M. (768) 49)

Ventral hippocampus; Acquisition; Consolidation; Retrieval; Tetrodotoxin functional inactivation (Ambrogi Lorenzini, C.G. (768) 242)

Learning; Memory; Glucocorticoid; Corticosterone; Metyrapone; Aminoglutethimide; Chick (Loscertales, M. (769) 357)

Learning and memory; Morris water maze; Spontaneously hypertensive rat; Nicotinic acetylcholine receptor; Rubidium efflux; Vesicular acetylcholine transporter; Autoradiography (Gattu, M. (771) 89)

Spontaneously hypertensive rat; Nicotinic receptor; Water maze; Autoradiography; Rubidium efflux; Learning and memory (Gattu, M. (771) 104)

Medial prefrontal cortex; Infralimbic cortex; Prelimbic cortex; Anxiety; Respiratory quotient; Autonomic; Rat (Jinks, A.L. (772) 181)

Passive avoidance task
Prostaglandin I_2 analog; Brain ischemia; Delayed neuronal death; Synapse; Gerbil (Matsuda, S. (769) 321)

Patch clamp
β-Amyloid peptide; hNT cell; Ionophore; Calcium current; Differentiated NT2 cell; Alzheimer's disease (Sanderson, K.L. (744) 7)

Alzheimer's disease; Cell morphology; Chloride channel; Glia; Intracellular calcium; Metal; Potassium channel (Jalonen, T.O. (746) 85)

Neuromodulation; Pregnenolone sulfate; Glycine receptor; Cultured spinal neuron; Competitive inhibition (Wu, F.-S. (750) 318)

Single-channel current; Mutagenesis; Gene expression; Retina (Lu, L. (756) 1)

Astrocyte; Glia; Neocortex; Volatile anaesthetic; Enflurane; Isoflurane; Halothane (Felisberti, F. (766) 56)

Chemosensory neuron; Neuronal acetylcholine receptor (Zhong, H. (766) 153)

Cocaine; Local anesthetic toxicity; Seizure; γ-Aminobutyric acid receptor/channel; Whole cell $GABA_A$ current; Hippocampal neuron (Ye, J.H. (770) 169)

Calcium current; Heavy metal; Mammalian cell line; Neurotoxicity; Whole cell (Hegg, C.C. (772) 63)

Tetrahydroberberine; K^+ current; K^+ channel; Hippocampus; Dissociated neuron (Wu, J. (775) 214)

Furosemide; $GABA_A$ receptor; Glycine receptor; Cultured septal neuron (Kumamoto, E. (776) 246)

Patch-clamp whole-cell recording
Ba^{2+} modulation of etorphine effect; Ca^{2+} current; Dorsal root ganglion neuron; Dual opioid regulation of K^{2+} conductance; Inward K^+ conductance (Fan, S.-f. (754) 303)

Patch-matrix compartments
Hippocampus; Cerebral cortex; Cerebellar Purkinje cells; Anterior commissure; Positional integrity; Neuronal survival (Martone, M.E. (771) 238)

Pathogenesis
Brain damage; Cerebral cortex; Cirrhosis of the liver; Human; mRNA; Quantitative RT/PCR (Lewohl, J.M. (751) 102)

Paw preference
Mouse; Lateralization; Restraint; Corticosterone (Neveu, P.J. (749) 344)

Paw reaching
Covert orienting; Sensorimotor; Neglect (Ward, N.M. (775) 81)

Paw withdrawal
Spinal cord; Regional heterogeneity; Tail flick; Forepaw; Hind paw (Kusmirek, J. (767) 375)

PC1
Thyrotropin releasing hormone (TRH); Biosynthesis; Processing; Convertase; PC2; Hybridization, in situ; Hypothalamus; Paraventricular nucleus (Sánchez, E. (761) 77)

PC2
Thyrotropin releasing hormone (TRH); Biosynthesis; Processing; Convertase; PC1; Hybridization, in situ; Hypothalamus; Paraventricular nucleus (Sánchez, E. (761) 77)

PC12
6-OHDA; Apoptosis; Parkinson's disease; p53; Bax (Blum, D. (751) 139)

PCA50938
Calcium antagonist; Nimodipine; Flunarizine; Cerebral ischemia; Gerbil; Neuroprotection (Zapater, P. (772) 57)

PC12 cell
Alzheimer's disease; Amyloid beta peptide; Amyloid precursor protein; Endosome; Lysosome; Neurodegeneration (Burdick, D. (746) 275)

Alzheimer's disease; Amyloid β protein; Ca^{2+} uptake; Chlorpromazine; Cortical neuron; Neurotoxicity; Phenothiazine (Ueda, K. (748) 184)

I_1-imidazoline receptor; Rostral ventrolateral medulla; SHR rat; Diacylglycerol; Phosphocholine; PC-PLC; D609; Moxonidine (Separovic, D. (749) 335)

Lead; Heavy metal; Nicotinic acetylcholine receptor; Ion channel (Nagata, K. (754) 21)

Adrenal medulla; Chromaffin cell; FGF-2 isoform; Glucocorticoid; Postnatal development; Rat (Meisinger, C. (757) 291)

Melatonin; Cell growth; Cell death; RZR nuclear receptor (Roth, J.A. (768) 63)

Anticholinesterase; Neostigmine; Carbaryl; Nicotinic acetylcholine receptor; Ion channel (Nagata, K. (769) 211)

Norepinephrine transporter; Tyrosine hydroxylase; Leukemia inhibitory factor; Ciliary neurotrophic factor; Retinoic acid; Superior cervical ganglia (Matsuoka, I. (776) 181)

Sialoglycopeptide; Apoptosis; Dibutyryl cAMP; Nerve growth factor; Serum (Kobayashi, Y. (778) 309)

PCPA
Phylogeny; Quiet sleep; Active sleep; Lizard; Serotonin (Huitrón-Reséndiz, S. (761) 19)

PC-PLC
I_1-imidazoline receptor; Rostral ventrolateral medulla; SHR rat; PC12 cell; Diacylglycerol; Phosphocholine; D609; Moxonidine (Separovic, D. (749) 335)

PD128907
Extracellular dopamine level; Striatum; Accumbens; D_3 receptor; Locomotor activity; R-(+)-7-OH-DPAT; PD151328; Haloperidol; Amphetamine (De Boer, P. (758) 83)

PD151328
Extracellular dopamine level; Striatum; Accumbens; D_3 receptor; Locomotor activity; PD128907; R-(+)-7-OH-DPAT; Haloperidol; Amphetamine (De Boer, P. (758) 83)

PD 81,273
Binding enhancer; Brain damage; Neonatal; Neuroprotection; Perinatal asphyxia (Halle, J.N. (759) 309)

PD-140548
Cholecystokinin; Conditioned activity; Locomotion; Devazepide; L-365,260; Cocaine; Reward-related learning; Nucleus accumbens (Josselyn, S.A. (763) 93)

Pedunculopontine tegmental nucleus
Thalamus; Lateralis medialis-suprageniculate nuclear complex; Choline acetyltransferase; GABA; Glutamate; Cat (Hoshino, K. (747) 151)

[D-Pen^2,D-Pen^5]enkephalin
[D-Ala^2,Glu^4]deltorphin II; δ_1-, δ_2-Opioid receptor agonist; Analgesia; Tolerance; Brain receptor (Zhao, G.-M. (745) 243)

[D-Pen^2,D-Pen^5]Enkephalin
Orphanin FQ; Nociceptin; LC132 receptor; Guinea pig ileum; Mouse vas deferens; Naloxone; Dynorphin A(1–13)NH_2 (Zhang, G. (772) 102)

Penicillin
Diazepam; Absence seizure; Hypothermia; GABA; Thalamus (Ostojić, Z.S. (777) 86)

Pentazocine
Phencyclidine; Immediate-early gene; c-*fos*; Rimcazole; 1,3-Di(2-tolyl)guanidine; σ Receptor; Rat (Sharp, J.W. (758) 51)

Pentobarbital
Social isolation stress; Ethanol; Chloral hydrate; CRF system; $GABA_A$/benzodiazepine receptor complex (Matsumoto, K. (753) 318)

Pentobarbital sleep
Social isolation stress; $GABA_A$/benzodiazepine receptor complex; GABA-stimulated $^{36}Cl^-$ uptake (Ojima, K. (745) 127)

Noradrenergic system; Flumazenil; FG7142; $GABA_A$/benzodiazepine receptor; Mouse (Matsumoto, K. (754) 325)

Pentose phosphate
Phosphate transport; Inorganic phosphate; Cortical neuron; ATP; NADPH; Energy metabolism (Glinn, M. (757) 85)

Pentose phosphate pathway
Aminotriazole; Astrocyte; Catalase; Glutathione; Glutathione reductase; H_2O_2; Mercaptosuccinate (Dringen, R. (759) 67)

Pentraxin
Acute-phase; Amyloid P component; Inflammation; PHF-1 (Duong, T. (749) 152)

Pentylenetetrazole
Kindling; Acetylcholine release; Muscarinic receptor; Hippocampus; Microdialysis (Serra, M. (751) 175)

Nitric oxide; N^{ω}-Nitro-L-arginine methylester; Strychnine; Seizure; Mouse (Kaputlu, İ. (753) 98)

Hippocampal CA1; Kindling-induced plasticity; Field potentials (Fathollahi, Y. (758) 92)

Rat; Kindling; Long-term potentiation; Glutamate binding; Strain difference; Epilepsy (Becker, A. (763) 87)

Free amino acid; Brain interstitial fluid (Sechi, G.P. (764) 230)

Penumbra
Sodium channel; Ischemia; Hippocampus; Neuroprotective drugs; Ion-sensitive microelectrode; Energy metabolism; Purine (Ashton, D. (745) 210)

Focal ischemia; Phospholipase; Quinacrine; Cerebroprotection (Estevez, A.Y. (752) 203)

Hypoxia; Calcium; Calpain inhibitor; Hippocampus; Neuroprotection (Chen, Z.-F. (769) 188)

Peptidase
Rat cerebral cortex primary culture; Dynorphin; Enkephalin; Mass spectrometry; Morphine dependence (Vlaskovska, M. (760) 85)

Peptide
Alzheimer's disease; Huntington's disease; *N*-Acetylaspartylglutamate; Glutamate; Microglia; Striatum; Cerebral cortex (Passani, L.A. (772) 9)

Peptide histidine isoleucine
Circadian; Suprachiasmatic nucleus; GABA; Vasoactive intestinal peptide; Gastrin-releasing peptide; Hamster (Gillespie, C.F. (759) 181)

Peptide mapping
Phosphorylation; 2-D polyacrylamide gel electrophoresis; Facilitation; Learning; Memory; Intermediate filament protein; Ca^{2+}-binding protein (Homayouni, R. (750) 87)

Peptide processing
Vasoactive intestinal polypeptide; Muscarinic receptor; Neuroblastoma cell; mRNA; Gene expression (Kristensen, B. (775) 99)

Peptide regulation
Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Superior cervical ganglion; Axotomy; Sympathectomy; Nerve regeneration (Moller, K. (775) 166)

Peptide YY
Neuropeptide Y; Receptor; Pancreas; Brainstem; Limbic; Hypothalamus; Vagus; Rat (Whitcomb, D.C. (760) 137)

Depression; Epilepsy; Neuropeptide Y receptor subtype; Receptor plasticity (Greisen, M.H. (776) 105)

Peptidyl-prolyl *cis-trans* isomerase
Cyclophilin A; Molecular chaperone; Protein folding; Actin; Axon; Slow axonal transport; Data searching (Yuan, A. (771) 203)

Perforant path
Dentate gyrus; Hippocampus; Low-frequency stimulation; Paired-pulse depression; Seizure; Kindling (Emori, K. (776) 250)

Temporal lobe epilepsy; Fimbria/fornix; Hippocampus; Seizure; Synaptic reorganization (Mohapel, P. (778) 186)

Perforant pathway
5-Hydroxytryptamine; Excitatory amino acid; Postsynaptic inhibition; Temporoammonic projection; Glutamate (Grünschlag, C.R. (770) 10)

Perforant pathway lesion
AMPA; Receptor; Immunocytochemistry; Upregulation; Hippocampus (Mizukami, K. (768) 354)

Perforated patch clamp
Hypertonia; Osmotic effect; Cell volume; Whole-cell patch clamp; Ion channel; Voltage-gated current; Synaptic current; Excitatory postsynaptic current; Freshly isolated cell (Huang, R. (748) 157)

Performance
3,4-Methylenedioxymethamphetamine (MDMA); D-Amphetamine; Cocaine; Methysergide; Self-stimulation; Reinforcement; 5-HT (Lin, H.Q. (744) 351)

Perfusion
Focal cerebral ischemia; Microcirculation; Spontaneously hypertensive rat; Fluorescence microscopy; Evans blue; Phenylephrine; Hypertension (Dawson, D.A. (749) 200)

Focal cerebral ischemia; Magnetic resonance imaging; Diffusion; Oxygenation; Rat brain (Dijkhuizen, R.M. (750) 161)

Periaqueductal gray
Opioid; Dorsal raphe; Serotonergic; GABA; Interneuron; Intracellular, brain slice (Jolas, T. (755) 229)

Defensive rage behavior; Serotonin; 5-HT_{1A} receptor; 5-$HT_{2/1C}$ receptor; Hypothalamus; Cat; 8-OHDPAT; DOI hydrochloride; p-MPPI (Shaikh, M.B. (765) 198)

Medial preoptic nucleus; Nitric oxide; Nitric oxide synthase; 7-Nitro indazole; Blood pressure; Pain (Hall, C.W. (765) 208)

Periaqueductal gray matter
Lateral hypothalamic area; Zona incerta; True blue; Retrograde tracers; Melanin-concentrating hormone; Neuropeptide EI (Elias, C.F. (755) 255)

Autonomic nervous system; Dorsal vagal nucleus; Nucleus ambiguus; Nucleus tractus solitarius; Parasympathetic nervous system (Farkas, E. (764) 257)

Neurotensin; Opioid; γ-Aminobutyric acid; Microdialysis; Rat (Stiller, C.-O. (774) 149)

Periaqueductal grey
Chemical stimulation; Dorsal horn; Antinociception; DL-Homocysteic acid; Rat (Waters, A.J. (752) 239)

Pericellular basket
Interneurone; Inhibition; Vertical organisation; Limbic cortex (Gabbott, P.L.A. (744) 179)

Periglomerular cell
Glucose-6-phosphate dehydrogenase; Antioxidant enzymes; Rat; Olfactory bulb (Ninfali, P. (744) 138)

c-Jun; Acetic acid; 1-Butanol; Olfactory bulb; Mitral cell; Tufted cell; Granule cell (Baba, K. (774) 142)

Perinatal
Brain damage; Free radical; Hypoxic ischemia; Lipid peroxidation; Malondialdehyde; Rat; Semi-dehydroascorbate radical (Bågenholm, R. (773) 132)

Perinatal asphyxia
Binding enhancer; Brain damage; Neonatal; Neuroprotection; PD 81,273 (Halle, J.N. (759) 309)

Neocortex; Nitric oxide; Immunohistochemistry; Nitric oxide synthase; Striatum (Capani, F. (775) 11)

Perinatal lead exposure
Rat; Septohippocampal system; Cholinergic neurons; ChAT activity; ChAT immunocytochemistry; HC-3 binding; AChE histochemistry (Bourjeily, N. (771) 319)

Perineurium
Amphibian; Blood–nerve barrier; Potassium permeability; Electrophysiology (Abbott, N.J. (776) 204)

Blood–nerve barrier; Inflammation; Inflammatory mediator; Bile salt; Protamine; Frog; Amphibian (Todd, B.A. (776) 214)

Periodic leg movement
NMDA; Retrorubral nucleus; Atonia; Twitch; REM behavior disorder; Narcolepsy (Lai, Y.Y. (745) 257)

N-Methyl-D-aspartate (NMDA); Non-NMDA; Corticotropin-releasing factor; DL-2-Amino-5-phosphonovaleric acid (APV); REM behavior disorder; Nucleus magnocellularis (Lai, Y.Y. (745) 265)

Periodontal ligament
Degeneration; Regeneration; Protein gene product 9.5; Neuropeptide Y; Ruffini ending; Inferior alveolar nerve; Nerve injury (Youn, S.H. (752) 161)

Calretinin; Ruffini ending; Mechanoreceptor; Rat (Ochi, K. (769) 183)

Calretinin; Immunohistochemistry; Incisor; Parvalbumin; Ruffini-like ending; Trigeminal ganglion (Ichikawa, H. (770) 294)

Peripheral benzodiazepine receptor
PK-11195; Domoic acid; Biomarker; Water maze; Hippocampus; Excitotoxicity (Kuhlmann, A.C. (751) 281)

Central benzodiazepine receptor; Estradiol; Progesterone; Corticosterone; Steroidogenesis (Weizman, R. (772) 203)

Peripheral inflammation
Brain-derived neurotrophic factor; Nerve growth factor; mRNA; Dorsal root ganglion; Pain; In situ hybridization (Cho, H.-J. (749) 358)

Brain-derived neurotrophic factor; Nerve growth factor; Dorsal root ganglion; Spinal cord; Pain; Immunohistochemistry (Cho, H.-J. (764) 269)

Peripheral nerve
Nerve regeneration; Nerve graft; Schwann cell; Silicone; Implant; Matrix; Immunohistochemistry (Zhao, Q. (769) 125)

Reperfusion injury; Ischemic neuropathy; Carbonyl formation; α-Tocopherol; Endoneurial vessels (Anderson, G.M. (772) 156)

Peripheral nerve injury
Immunohistochemistry; Mechanical allodynia; Sensory ganglion; Sympathetic sprouting; Tyrosine hydroxylase; Ultrastructure (Chung, K. (751) 275)

Peripheral nerve regeneration
Diabetic neuropathy; Silicone chamber; Schwann cell migration; Axon; Streptozocin (Tantuwaya, V.S. (759) 58)

Peripheral nervous system
Octopamine; Gut; Earthworm; *Eisenia fetida*; Immunocytochemistry; HPLC (Csoknya, M. (778) 414)

Peripheral neuropathy
N-Methyl-D-aspartate (NMDA) receptor; Chronic pain; Spinal cord; Adrenal medulla; Neuropeptide (Siegan, J.B. (755) 331)

Peripheral sensitization
Catecholamine; Pain; Ultrastructure (Carlton, S.M. (763) 271)

Peripheral tissue
Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Brain region; Pituitary gland; Spinal cord (Rattan, A.K. (754) 239)

Morphine; Midazolam; Opioid; Benzodiazepine; Met-enkephalin; Tolerance; Brain region; Spinal cord; Central nervous system (Tejwani, G.A. (775) 119)

Peripheral-type benzodiazepine receptor
$GABA_A$ receptor; Central-type benzodiazepine receptor; Pregnancy; Lactation; Progesterone; Prolactin (Weizman, R. (752) 307)

Portacaval anastomosis; Hepatic encephalopathy; PK11195; Astrocyte (Desjardins, P. (758) 255)

Peripherin
Neuroaxonal dystrophy; Sympathetic ganglia; Neurofilament (Schmidt, R.E. (769) 375)

Perirhinal cortex
Epilepsy; Transfer; Kindling; Atropine; Muscarinic; Acetylcholine; Amygdala (Buchanan, J.-A.M. (771) 63)

Epilepsy; Transfer; Kindling; Amygdala; Frontal cortex (Buchanan, J.-A.M. (771) 71)

Peritrigeminal nucleus
Synapse; Axo-axonic; Inhibition; Trigeminal motor nucleus; Parvocellular reticular nucleus; Immunogold; Electron microscopy (Yang, H.-W. (749) 301)

Periventricular
Bombesin; Gastrin-releasing peptide; Neuromedin C; Suprachiasmatic; Whole-cell; Potassium conductance; Non-specific conductance (Reynolds, T. (750) 67)

Permeability
Brain endothelium; Cultured monolayer; Cytoskeleton; Pyrithiamine (Romero, I.A. (756) 133)

Brain endothelium; Cytoskeleton; Cultured monolayer; Cyclic AMP (Rist, R.J. (768) 10)

Permeability-area product
Blood-brain barrier; Cerebral ischemia; Stroke; Transfer constants; Sucrose; Inulin (Preston, E. (761) 4)

Peroxynitrite
Reactive oxygen species; Lipid peroxidation; Brain; Cell death (Ekert, P. (747) 9)

Astrocyte; Cytotoxicity; Nitric oxide (Amin, N. (773) 227)

Pertussis toxin
Ventral tegmental area; Nucleus accumbens; Locomotor activity; Apomorphine; Amphetamine; Sensitization (Narayanan, S. (748) 263)

Cognition enhancer; cAMP; G-protein; Cholera toxin; Metabotropic glutamate receptor (Oka, M. (754) 121)

G-protein; *N*-ethylmaleimide; GDP-β-S; Protein kinase A; High voltage-activated calcium channel; Neuroprotective drug; Riluzole (Huang, C.-S. (762) 235)

Opioid receptor; Transmitter release; Calcium channel; Dopamine; Neuroblastoma (Keren, O. (764) 277)

PET
Amphetamine; Methamphetamine; Neurotoxicity; Dopamine; Primate (Melega, W.P. (766) 113)

Imaging; Opioid receptor antagonist; Rat brain; Dopamine receptor binding; Nalmefene (Unterwald, E.M. (775) 183)

Petrosal ganglion
Calbindin D-28k; Jugular ganglion; Immunohistochemistry; Nodose ganglion; Parvalbumin; S100; Vagal afferent neuron (Ichikawa, H. (768) 349)

P-glycoprotein
Immunohistochemistry; Inner ear; Cochlea; Vestibule; Blood–inner ear barrier; Blood–brain barrier; Western blotting (Saito, T. (767) 388)

Neurotoxicity; Methamphetamine; Methylenedioxymethamphetamine; Blood–brain barrier; Dopamine; Striatum; Nucleus accumbens; Cancer (Mann, H. (769) 340)

Pharmacogenetics
Inbred strains; Operant responding; Cocaine plasma levels; Drug reinforcement; Vulnerability to drug abuse (Kosten, T.A. (778) 418)

***Phaseolus vulgaris* leucoagglutinin**
Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Ventral pallidum; Substantia innominata; GABA; Dopamine; Anterograde tracing (Gaykema, R.P.A. (747) 173)

Phase shift
Circadian; SCN; NMDA; Glutamate; Hamster (Mintz, E.M. (758) 245)

Phase shift assay
Circadian entrainment; Cone opsin; Immunocytochemistry; *Mesocricetus auratus*; RNA; Syrian golden hamster (Von Schantz, M. (770) 131)

Phasic voluntary contraction
Motor evoked potential; H-reflex; Flexor carpi radialis muscle; Tonic voluntary contraction; Human (Kasai, T. (764) 273)

Phencyclidine
Dystonia; Glutamate; Excitatory amino acid (Nobrega, J.N. (744) 161)

de Olmos silver staining; Haemotoxylin and eosin; Heat shock protein immunocytochemistry; Neurodegeneration; Neurotoxicity; NMDA antagonists; Retrosplenial granular cortex (Corso, T.D. (752) 1)

Brain metabolism; Cytochrome P_{450}; Drug abuse; Central nervous system; High performance liquid chromatography (Laurenzana, E.M. (756) 256)

Immediate-early gene; c-*fos*; Rimcazole; 1,3-Di(2-tolyl)guanidine; σ Receptor; Pentazocine; Rat (Sharp, J.W. (758) 51)

NMDA receptor antagonist; Neurotoxicity; Cyclooxygenase-2; Heat shock protein; Retrosplenial cortex (Hashimoto, K. (762) 259)

N-Methyl-D-aspartate (NMDA) receptor; Neurotoxicity; Memantine; Scopolamine; Heat shock protein (Tomitaka, S.-i. (763) 255)

Phenobarbital
Dependence; Withdrawal; MK-801 binding; c-*fos*; c-*jun*; Activator protein-1 (Tanaka, S. (756) 35)

Phenothiazine
Alzheimer's disease; Amyloid β protein; Ca^{2+} uptake; Chlorpromazine; Cortical neuron; Neurotoxicity; PC12 cell (Ueda, K. (748) 184)

Phenoxyherbicide
Developmental brain; Ganglioside; 2,4-Dichlorophenoxyacetic acid (2,4-D); Neurotoxicity (Rosso, S.B. (769) 163)

Phentolamine
Nucleus of the solitary tract; Subfornical organ; Noradrenergic pathway; Timolol; Microiontophoresis; Hemorrhage; Baroreceptor activation; Rat (Tanaka, J. (777) 237)

Phenylalanine transport
Blood–brain barrier; Difference spectroscopy; Hyperphenylalaninemia; Michaelis–Menten kinetics; Proton magnetic resonance spectroscopy; Phenylketonuria; Saturation kinetics (Möller, H.E. (778) 329)

Phenylephrine
Focal cerebral ischemia; Microcirculation; Perfusion; Spontaneously hypertensive rat; Fluorescence microscopy; Evans blue; Hypertension (Dawson, D.A. (749) 200)

Glutamate reuptake; Microdialysis; Rat; Frontoparietal cortex; Awake (Alexander, G.M. (766) 1)

Sodium nitroprusside; Lidocaine; Parasympathetic; Sympathetic; Baroreflex sensitivity (Saleh, T.M. (767) 201)

***β*-Phenylethylamine**
Monoamine oxidase; Clorgyline; Deprenyl; Tyramine; Serotonin; Locus coeruleus; Dorsal raphe nucleus (Arai, R. (745) 352)

Phenylketonuria
Blood–brain barrier; Difference spectroscopy; Hyperphenylalaninemia; Michaelis–Menten kinetics; Proton magnetic resonance spectroscopy; Phenylalanine transport; Saturation kinetics (Möller, H.E. (778) 329)

2-Phenyl-4,4,5,5-tetramethyl-1-oxyl-3-oxide (PTIO)
Vestibular compensation; Neural plasticity; Nystagmus; Vestibulocerebellum; Granule cell layer; Immunohistochemistry; N^{ω}-Nitro-L-arginine methyl ester (L-NAME) (Kitahara, T. (765) 1)

17-Phenyl-ω-trinor prostaglandin E_2
Prostaglandin E_2; Hyperthermia; EP_1 receptor; Diagonal band of Broca; Anterior wall of the third ventricle; Fever (Oka, K. (767) 92)

Prostaglandin E_2; Hyperalgesia; Analgesia; MB28767; Pain; Central nervous system (Oka, T. (771) 278)

PHF-1
Acute-phase; Amyloid P component; Inflammation; Pentraxin (Duong, T. (749) 152)

Phorbol 12,13-dibutyrate
Ethanol; Protein kinase C; Righting reflex; Calphostin C; Diabetes (Ohsawa, M. (764) 244)

Phorbol ester
In situ phosphorylation; Protein kinase C translocation; MARCKS; Neurogranin; Two-dimensional gel electrophoresis; Hippocampal slice (Angenstein, F. (745) 46)

GnRH; GT1 cell; Actinomycin D; DRB; Cycloheximide (Yeo, T.T. (752) 294)

LRP; α_2MR; Neuroblastoma; Differentiation; α_2 Macroglobulin; Retinoic acid; Interferon-γ (Fabrizi, C. (776) 154)

Phosphatase 1 / 2A
Cytoskeleton; Tau protein; Calcium; Okadaic acid; Cortical neuron; Cerebellar granule cell (Adamec, E. (757) 93)

Phosphate transport
Inorganic phosphate; Cortical neuron; ATP; NADPH; Pentose phosphate; Energy metabolism (Glinn, M. (757) 85)

Phosphocholine
I_1-imidazoline receptor; Rostral ventrolateral medulla; SHR rat; PC12 cell; Diacylglycerol; PC-PLC; D609; Moxonidine (Separovic, D. (749) 335)

Phosphodiesterase
Amantadine; Inhibition; Calmodulin; Parkinson's disease (Kakkar, R. (749) 290)

Carbon monoxide; Guanylyl cyclase; Heme oxygenase; Nitric oxide; N^{G}-Nitro-L-arginine methyl ester (Laitinen, K.S.M. (755) 272)

Cyclic guanosine monophosphate; Cyclic adenosine monophosphate; Protein kinase; Autoradiography; Rat brain (Bonkale, W.L. (763) 1)

Phosphoinositide-3 kinase
Retrograde transport; Neuronal survival; Nerve growth factor; Vesicular trafficking (Bartlett, S.E. (761) 257)

Phospholipase
Penumbra; Focal ischemia; Quinacrine; Cerebroprotection (Estevez, A.Y. (752) 203)

Phospholipase A
G-protein; Phospholipase C; Arachidonic acid; Diacylglycerol; Protein kinase C; Associative learning; Memory (Talk, A.C. (751) 196)

Phospholipase A_2
Arachidonate; Docosahexaenoate; Serotonin-2 receptor; Phospholipase C; C6 glioma cell (Garcia, M.C. (768) 43)

Phospholipase C
G-protein; Phospholipase A; Arachidonic acid; Diacylglycerol; Protein kinase C; Associative learning; Memory (Talk, A.C. (751) 196)

Arachidonate; Docosahexaenoate; Serotonin-2 receptor; Phospholipase A_2; C6 glioma cell (Garcia, M.C. (768) 43)

Phospholipid metabolism
Positron emission tomography; Arachidonate; Brain; Blood flow; Monkey; Rat (Chang, M.C.J. (755) 74)

Phosphonovaleric acid
Excitatory amino acid receptor; Cardiovascular regulation; Cardiovagal excitation; Sympathoexcitation; Autonomic regulation (Colombari, E. (749) 209)

Phosphoprotein phosphatase
Acetylcholine; Cholinergic; Choline transport; Choline acetyltransferase (Cooke, L.J. (751) 232)

Phosphorothioate oligodeoxynucleotide
Enkephalin; Sexual behavior; Ventromedial hypothalamus; Antisense; mRNA (Nicot, A. (777) 60)

Phosphorylation
Memory; Hippocampus; Inhibitory avoidance; Habituation; Intermediate filament (Schröder, N. (749) 275)

2-D polyacrylamide gel electrophoresis; Peptide mapping; Facilitation; Learning; Memory; Intermediate filament protein; Ca^{2+}-binding protein (Homayouni, R. (750) 87)

Methylmalonic acid; Organic acidemias; Neurotoxicity; Cytoskeletal protein (De Mattos-Dutra, A. (763) 221)

Amyloid beta ($A\beta$); Alzheimer's disease; Cytotoxicity (Tan, S. (765) 159)

Schizophrenia; MAP2; Densitometry; Interneuronal distance; Neuronal orientation (Cotter, D. (765) 238)

hNF-H; cdk5; SDS-PAGE; IPTG (Pant, A.C. (765) 259)

Neurofilament; Neuronal cdc2-like kinase; cdk5; Neuronal cdk5 activator (Lee, K.-Y. (773) 197)

Hybridoma; Dorsal root ganglia; Sensory neuron; Nerve growth factor; Neurite regeneration; Neurofilament (Hikawa, N. (774) 225)

Basal forebrain; Whole-cell patch-clamp; Acutely dissociated neuron; Signal transduction (Jassar, B.S. (775) 127)

ATP-sensitive K^+ channel; Ventromedial hypothalamic nucleus; Glibenclamide; AMPPNP; Metabolism; Glucose (Routh, V.H. (778) 107)

Photic
Suprachiasmatic nuclei; Circadian system; Multiunit recording; In vivo; In vitro; Neurophysiology; Nonphotic (Meijer, J.H. (753) 322)

Photic response
$5\text{-}HT_7$; $5\text{-}HT_{1A}$; Agonist; Antagonist; Serotonin; Suprachiasmatic nucleus; Hippocampus; Cerebellum; Light; Entrainment (Ying, S.-W. (755) 246)

Photoperiod
Circadian rhythm; Melatonin; Cortisol; Human (Vondrašová, D. (759) 166)

Testosterone; Plasticity; Songbird; Vocalization; Seasonality (Bernard, D.J. (760) 163)

Photothrombosis
Stroke; Focal cerebral ischemia; Krypton laser; Rose bengal; Excitotoxicity (Yao, H. (753) 80)

Phrenic motoneuron
Excitability; Recruitment order; Postnatal development (Su, C.-K. (774) 62)

Phrenic nerve
Adult rat; Recurrent laryngeal nerve; Coherence; High frequency oscillations; Medium frequency oscillations; Urethane; Barbiturate (Kocsis, B. (745) 309)

Phylogeny
Quiet sleep; Active sleep; PCPA; Lizard; Serotonin (Huitrón-Reséndiz, S. (761) 19)

Physostigmine
Cholinergic system; Scopolamine; Regional cerebral blood flow; Regional metabolism; Positron emission tomography; Monkey (Tsukada, H. (749) 10)

Pial microvessel
Blood–brain barrier; Endothelial barrier antigen; Endothelial cell; Immunocytochemistry (Cassella, J.P. (744) 335)

Pia mater
Melatonin; Melatonin receptor; Leptomeninges; Arachnoid; Human fetus (Drew, J.E. (761) 87)

Picrotoxin
Superior cervical ganglion; γ-Aminobutyric acid (GABA); GABA receptors; Inhibition; Synaptic plasticity; Long-term potentiation (González Burgos, G.R. (751) 148)

Ethanol; $GABA_A$ receptor complex; Neurosteroid; Drug discrimination; Rat (Bienkowski, P. (753) 348)

Pig
Electrical field stimulation; Vasoactive intestinal polypeptide; Neuropeptide Y; Lacrimal gland; Protein secretion (Adeghate, E.A. (758) 127)

Merosin; Synapse; Synaptogenesis; Basement membrane; Hippocampus; Brain; Regeneration; Lesion; Rat; Rabbit (Tian, M. (764) 28)

Pigment epithelium
Glutamate uptake; GLAST; Retina; Glia; Müller cell; Astrocyte; Immunocytochemistry (Lehre, K.P. (744) 129)

Pilocarpine
Seizure; Vasopressin; Vasopressin V_2-receptor (Croiset, G. (759) 18)

Pineal
Brain renin–angiotensin system; Angiotensin I-converting enzyme; Angiotensin II receptor; Immunocytochemistry (Baltatu, O. (752) 269)

HIOMT; Melatonin; Neuropeptide Y; Vasoactive intestinal polypeptide; Pituitary adenylate cyclase activating polypeptide; Noradrenaline (Ribelayga, C. (777) 247)

Pineal gland
Superior cervical ganglion; Ganglionectomy; Deep pineal; Lamina intercalaris; Intergeniculate leaflet (Bartol, I. (744) 77)

Circadian rhythm; Melatonin (Nakahara, K. (774) 242)

Pinealocyte
Calcium oscillation; Rainbow trout; Norepinephrine; L-type calcium channel; S-antigen (Kroeber, S. (744) 68)

Pineal organ
Lizard; *Christinus marmoratus*; Melatonin; Circadian rhythm; Temperature; In vitro (Moyer, R.W. (747) 230)

Pipa
Amphibians; Olfactory system; Accessory olfactory system; NADPH-diaphorase; Lectin; Soybean agglutinin (Meyer, D.L. (762) 275)

Piriform cortex
Olfaction; Fast wave; Odor; Antimuscarinic; Behavior (Zibrowski, E.M. (766) 39)

Pituitary
Sleep; REM sleep; Prolactin; Brain temperature (Obál Jr., F. (755) 130)

TNF receptor; AtT/20; TtT/GF (Kobayashi, H. (758) 45)

Synthesis of neuroactive 3αHP; Neurosteroid synthesis; 3α-Hydroxy-4-pregnen-20-one (3αHP) synthesis and metabolism; 3αHP; Steroidogenic pathway; Allopregnanolone synthesis from 3αHP (Wiebe, J.P. (764) 158)

Opioid; Lactation; Naltrexone; Opioid mRNA; Arcuate nucleus; Rat (Kim, E.-M. (769) 303)

Proopiomelanocortin; mRNA; 5-Hydroxytryptamine; 5,7-Dihydroxytryptamine (García-García, L. (772) 115)

Pituitary adenylate cyclase-activating peptide
Corticotropin-releasing hormone; Hypothalamic paraventricular nucleus; In situ hybridization; Hypothalamo-pituitary-adrenocortical axis (Grinevich, V. (773) 190)

Nerve regeneration; Sympathetic ganglia; Explant culture; Superior cervical ganglion; Neuropeptide; Neuropeptide expression; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Pituitary adenylate cyclase-activating peptide receptor
Pituitary adenylate cyclase-activating polypeptide; Vasopressin; Immunocytochemistry; In situ hybridization; Hypothalamus (Shioda, S. (765) 81)

Nerve regeneration; Sympathetic ganglia; Explant culture; Superior cervical ganglion; Neuropeptide; Neuropeptide expression; Pituitary adenylate cyclase activating peptide (Moller, K. (775) 156)

Neuropeptide; Pituitary adenylate cyclase activating peptide; Galanin; Sympathetic neuron; Superior cervical ganglion; Axotomy; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Neuropeptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Superior cervical ganglion; Axotomy; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Intermediolateral cell column; Substance P; Glutamate; Vasoactive intestinal polypeptide; Sympathetic preganglionic neuron (Lai, C.C. (748) 189)

Pituitary adenylate cyclase-activating polypeptide receptor; Vasopressin; Immunocytochemistry; In situ hybridization; Hypothalamus (Shioda, S. (765) 81)

HIOMT; Pineal; Melatonin; Neuropeptide Y; Vasoactive intestinal polypeptide; Noradrenaline (Ribelayga, C. (777) 247)

Pituitary adenylate cyclase-activating polypeptide immunoreactive axon terminal
Bed nucleus of stria terminalis; Vasoactive intestinal polypeptide immunoreactive axon terminal; Corticotropin releasing factor immunoreactive neuron; Immunohistochemistry; Electron microscopy; Rat (Kozicz, T. (767) 109)

Pituitary gland
Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Brain region; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

Serotonin; Supraependymal neuronal complex; Intraventricular nerves (Cloft, H.J. (761) 210)

PK-11195
Peripheral benzodiazepine receptor; Domoic acid; Biomarker; Water maze; Hippocampus; Excitotoxicity (Kuhlmann, A.C. (751) 281)

Peripheral-type benzodiazepine receptor; Portacaval anastomosis; Hepatic encephalopathy; Astrocyte (Desjardins, P. (758) 255)

γ-PKC
Long-term potentiation; C57BL/6 mice; DBA/2 mice; Hippocampus (Matsuyama, S. (763) 127)

PLA_2
Streptozotocin; Glutamate receptor; Hippocampus (Chabot, C. (768) 249)

Place preference
Behavior; Cadmium; Fentanyl; Morphine; Opiate (Miller, D.K. (776) 162)

Planar electrode array
Suprachiasmatic nucleus; Circadian rhythm; Pacemaker (Herzog, E.D. (757) 285)

Plaque
Iron histochemistry; Macrophage; Microglia; Demyelination; Oxidative damage (LeVine, S.M. (760) 298)

Plaque type
Diffuse plaque; Isoaspartate β-amyloid; Aging; Alzheimer's; Animal model; Beagle dog lifespan (Satou, T. (774) 35)

Plasma luteinizing hormone
Preoptic–hypothalamic; Norepinephrine; Dopamine content; 5-HIAA content; Follicle-stimulating hormone; Prolactin (Anselmo-Franci, J.A. (767) 289)

Plasma membrane
Intracellular calcium homeostasis; Calcium channel; Calcium-binding protein; Immunolocalization; Intracellular signaling (Stauffer, T.P. (748) 21)

Plasmin
Excitatory postsynaptic current; Inhibitory postsynaptic current; CA1 pyramidal cell; γ-Aminobutyric acid (GABA); Whole-cell recording; Hippocampal slice; Rat (Mizutani, A. (761) 93)

Blood–brain barrier; Brain edema; Cathepsin G; Cerebral capillary; Elastase; Intracerebral hemorrhage; Neutral protease (Armao, D. (767) 259)

Plasticity
Learning; Stress; Immunohistochemistry; Gene expression; Hearing deficit; Novel sound stimulation (Hillman, D.E. (748) 77)

Cochlea; Deafness; AMPA; Dendritic swelling; Neurite regeneration; Protein kinase C (Lerner-Natoli, M. (749) 109)

Reorganization; Tonotopic map; Pseudoplasticity; Dorsal cochlear nucleus (Meleca, R.J. (750) 201)

Positron emission tomography; Blindness; Oxygen metabolism; Visual cortex; Synapse (De Volder, A.G. (750) 235)

Nerve growth factor; Neurotrophin; Pyramidal neuron; Dendritic growth (Kolb, B. (751) 289)

Transplant; Synaptogenesis; Hippocampus; Dentate gyrus; Deafferentation; Sprouting; Reinnervation (Field, P.M. (751) 352)

Mouse; Transgenic; Spatial learning; Synaptophysin; GAP43; Morris water maze; Entorhinal cortex lesion (Hardman, R. (758) 187)

Photoperiod; Testosterone; Songbird; Vocalization; Seasonality (Bernard, D.J. (760) 163)

Fibroblast growth factor; Neural activity (Gómez-Pinilla, F. (764) 1)

Long-term potentiation; Kindling; Hippocampus; Mossy fiber; Sprouting (Adams, B. (775) 193)

Platelet
Alzheimer's disease; Protein kinase C; Calcium; Brain; Leukocyte (Lanius, R.A. (764) 75)

Platelet-activating factor (PAF)
Culture; Fura-2-release assay; Glutamate neurotoxicity; Neuron (Nogami, K. (754) 72)

Platelet-derived growth factor receptor
Myelin basic protein; Proteolipid protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Myelin-associated glycoprotein; Thyroid hormone; Hyperthyroidism; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Plus maze
Forced swim; Restraint; Chloride ion flux; Fear; Anxiety; Rat (Martijena, I.D. (752) 136)

Polyamine
Brain edema; Cerebral blood flow; Focal cerebral ischemia; Putrescine (Başkaya, M.K. (744) 302)

Spermine; Cerebellar granule cell; Apoptosis; *N*-Methyl-D-aspartate receptor; CPP32; Caspase (Harada, J. (753) 251)

Blood-brain barrier; Cerebral ischemia; Free radical; Superoxide dismutase; Hippocampus; Rat (Wengenack, T.M. (754) 46)

Chronic lithium; Excitotoxicity; Apoptosis; Neuroprotection (Sparapani, M. (765) 164)

Axotomy; Neurite regeneration; Structure–activity relationship; Cultured hippocampal neuron (Abe, K. (766) 281)

Blood-brain barrier; Blood-nerve barrier; Catalase; Superoxide dismutase; Putrescine; Free radical (Wengenack, T.M. (767) 128)

Polyamine immunocytochemistry
Monoclonal antibody; Spermine; Spermidine; Ornithine decarboxylase (Fujiwara, K. (767) 166)

Polyarthritis
Met-enkephalin; Dynorphin A 1–8; mRNA; Rat dorsal root ganglia; In vivo spinal release (Pohl, M. (749) 18)

Poly (A) tail
Glucose transport; Blood–brain barrier; Diabetes (Shah, G.N. (754) 213)

Polymerase chain reaction
M2 muscarinic receptor; Spontaneously hypertensive rat; Blood pressure; Rostral ventrolateral medulla; Autoradiography (Gattu, M. (756) 125)

Aging; Ischemia; Preprotachykinin; Preproenkephalin; Striatum (Tohgi, H. (768) 86)

Polymodal nociceptor
C-fiber; α_2-Adrenoceptor; Causalgia; Sympathetic pain; Sympathetic stimulation; Epinephrine; Nerve injury (O'Halloran, K.D. (759) 233)

Polyneuropathy
Diabetic neuropathy; Myelinated axon; Trophin (Singhal, A. (763) 209)

Polysialic acid
PSA-NCAM; NCAM; Neuronal cell adhesion molecule; Aging; Memory deficit; Hippocampus; Immunohistochemistry; Western blot (Abrous, D.N. (744) 285)

Polyvalent cation
Medicinal leech; Intracellular Ca^{2+}; Extracellular K^+; Ca^{2+} channel; Menthol (Dierkes, P.W. (746) 285)

Pontine reticular formation
Potassium current; Intracellular staining; Biocytin; Carbachol; REM sleep (Núñez, A. (754) 1)

Population spike
Dentate gyrus; Interneuron; Single unit; Field potential (Kao, K. (752) 90)

Pore protein
Oscillation; Cation current; Adenosine triphosphate synthase subunit c (McGeoch, J.E.M. (766) 188)

Portacaval anastomosis
Peripheral-type benzodiazepine receptor; Hepatic encephalopathy; PK11195; Astrocyte (Desjardins, P. (758) 255)

Portacaval shunt
L-Arginine; L-Nitroarginine; Hepatic encephalopathy; Nitric oxide synthase; Western blotting; mRNA; RT-PCR (Rao, V.L.R. (765) 169)

Portocaval anastomosis
Bergmann glial cell; Purkinje neuron; AMPA receptor (Suárez, I. (778) 346)

Positional integrity
Hippocampus; Cerebral cortex; Cerebellar Purkinje cells; Patch-matrix compartments; Anterior commissure; Neuronal survival (Martone, M.E. (771) 238)

Positron emission tomography
Cholinergic system; Scopolamine; Physostigmine; Regional cerebral blood flow; Regional metabolism; Monkey (Tsukada, H. (749) 10)

Blindness; Oxygen metabolism; Visual cortex; Plasticity; Synapse (De Volder, A.G. (750) 235)

6-[^{18}F]Fluoro-L-*m*-tyrosine; Dopamine; Kinetics; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey; 6-[^{18}F]Fluoro-L-DOPA (Jordan, S. (750) 264)

Arachidonate; Brain; Blood flow; Phospholipid metabolism; Monkey; Rat (Chang, M.C.J. (755) 74)

Cerebral ischemia; Oxidative metabolism; Baboon; Infarction; Reperfusion; Neuroprotection; Stroke (Touzani, O. (767) 17)

6-[^{18}F]Fluoro-L-DOPA; 3-*O*-Methyl-6-[^{18}F]fluoro-L-DOPA; Aromatic amino acid decarboxylase; Carbidopa; Catechol-*O*-methyltransferase; COMT inhibitors: CGP 28014, OR-611, Ro 40-7592 (Psylla, M. (767) 45)

Posterior complex
Kidney; Visceroception; Ventral posterolateral nucleus; Viscera (Horn, A.C. (763) 47)

Posterior tibial nerve
Dipole tracing; Monkey; Somatosensory evoked potential (Hayashi, N. (774) 44)

Post-inspiratory inspiratory activity
Spontaneous augmented breath; Post-inspiratory neuron; Medulla; Diaphragm electromyogram; Single unit recording; Control of breathing (Takeda, M. (758) 218)

Post-inspiratory neuron
Spontaneous augmented breath; Post-inspiratory inspiratory activity; Medulla; Diaphragm electromyogram; Single unit recording; Control of breathing (Takeda, M. (758) 218)

Postischemic glutamate release potentiation
Glutamate; In vitro ischemia; Brain slice; Na^+/K^+ ATP_{ase}; Na^+/glutamate transporter (Calò, G. (751) 300)

Postmitotic cell
POU transcription factor; Brn-2; Developing neocortex; NCAM-H; Gene expression (Hagino-Yamagishi, K. (752) 261)

Post-mortem brain tissue
Dopamine D_1 receptor binding site; Dopamine D_2 receptor binding site; Depression; Suicide; Antidepressant drug; Neuroleptic (Bowden, C. (752) 227)

cAMP-dependent protein kinase; [^{3}H]cAMP binding; Suicide; Depression; Antidepressant drugs; Cerebral cortex; Hippocampus; Amygdala (Lowther, S. (758) 223)

Dopamine; Homovanillic acid; DOPAC; Depression; Suicide; Antidepressant drug; Basal ganglia (Bowden, C. (769) 135)

Post-mortem human brain
α_1-Adrenoceptor; α_2-Adrenoceptor; α_1-Adrenoceptor subtype; α_2-Adrenoceptor subtype; Suicide; Depression; Antidepressant drug (De Paermentier, F. (757) 60)

Postnatal development
Respiratory control; Sneeze reflex; Trigeminal afferent; Brainstem; Transsynaptic labeling; Fos-like immunohistochemistry; Cat (Masmoudi, K. (757) 102)

Adrenal medulla; Chromaffin cell; PC12 cell; FGF-2 isoform; Glucocorticoid; Rat (Meisinger, C. (757) 291)

Phrenic motoneuron; Excitability; Recruitment order (Su, C.-K. (774) 62)

Postnatal exposure
Diazepam; Benzodiazepine; Chronic treatment; Learning; Memory; Anxiety; Cerebral glucose utilization (Schroeder, H. (766) 142)

Postnatal stress
Development; Critical period; Prenatal stress; Corticosterone; Rhythm (Koehl, M. (759) 317)

Postsynaptic density
α-Internexin (Suzuki, T. (765) 74)

Postsynaptic inhibition
5-Hydroxytryptamine; Perforant pathway; Excitatory amino acid; Temporoammonic projection; Glutamate (Grünschlag, C.R. (770) 10)

Postsynaptic protein
Protein kinase C substrate; Synaptic plasticity; Hippocampus; Learning and memory; Calmodulin (Chen, S.-J. (749) 181)

Post-tetanic potentiation
Cytokine; CA1; Field potential; Short-term potentiation; IL-6 receptor antibody (Li, A.-J. (748) 30)

Nitric oxide (NO); Nitric oxide-synthase inhibitor (Alkadhi, K.A. (753) 315)

Post-tonic clonus
Audiogenic seizure; Neuronal firing; Habituation; Medial geniculate body; GEPR-9s (N'Gouemo, P. (761) 217)

Post-training
Amygdala; Benzodiazepine; Midazolam; Aversive learning; Memory; Amnesia; Inhibitory avoidance (Dickinson-Anson, H. (752) 197)

Post-transcriptional modification
Mn-SOD; Mercury; Mouse brain; Dexamethasone; Oxidative stress (Kumagai, Y. (769) 178)

Post-translational processing
Opioid; Pro-opiomelanocortin; Cardiovascular regulation; Glycyl-L-glutamine; Dipeptide (Unal, C.B. (747) 52)

Postural adjustment
Balance; Electromyogram (EMG); Neuromuscular pattern; Postural muscle; Voluntary movement; Rapid arm flexion (Benvenuti, F. (761) 59)

Postural muscle
Balance; Electromyogram (EMG); Neuromuscular pattern; Postural adjustment; Voluntary movement; Rapid arm flexion (Benvenuti, F. (761) 59)

Posture
Motor control; Co-contraction; Movement; Hemiplegia (Levin, M.F. (757) 43)

Potassium
Heat shock; Ethanol; Intracellular pH; Sodium; Monensin; Membrane potential; Lactate; Glioma (Skrandies, S. (746) 220)

Choroid plexus; Hyperkalemia; Hypokalemia; Na^+/K^+-ATPase; Cotransport (Klarr, S.A. (758) 39)

Potassium channel
Alzheimer's disease; Cell morphology; Chloride channel; Glia; Intracellular calcium; Metal; Patch-clamp (Jalonen, T.O. (746) 85)

Kv2.1; Antipsychotic agent; Fluspirilene; Human (Wible, B. (761) 42)

Nonpyramidal cell; Interneuron; Channel rings; Parallel fiber; Immunofluorescence; Parvalbumin; Calbindin; Ultrastructural localization (Sekirnjak, C. (766) 173)

Potassium conductance
Bombesin; Gastrin-releasing peptide; Neuromedin C; Suprachiasmatic; Periventricular; Whole-cell; Non-specific conductance (Reynolds, T. (750) 67)

Potassium current
Lanthanum; Gating; Ion channel; *Xenopus*; Oocyte; Voltage-clamp (Tytgat, J. (749) 232)

Pontine reticular formation; Intracellular staining; Biocytin; Carbachol; REM sleep (Núñez, A. (754) 1)

Potassium ion channel
Cytoplasmic calcium ($[Ca^{2+}]_i$); Synaptic transmission; Calcium ion channel; Oscillation; Glutamate receptor; GABA receptor; Neuronal network (Wang, X.-s. (767) 239)

Potassium ion release
Astrocyte; Cell swelling; Glutamate uptake; Glutamate release; Hypothermia; Lactic acid (Bender, A.S. (750) 59)

Potassium permeability
Amphibian; Blood–nerve barrier; Perineurium; Electrophysiology (Abbott, N.J. (776) 204)

Potentiation
Hippocampus; CA1; Temperature; Seizure; Hypoxia (Watson, P.L. (775) 134)

POU transcription factor
Brn-2; Developing neocortex; Postmitotic cell; NCAM-H; Gene expression (Hagino-Yamagishi, K. (752) 261)

Power spectral analysis
Betaxolol; Serotonin-1A; β-Adrenoceptor; Autoreceptor; Electroencephalogram; Rapid eye movement (REM) (Seifritz, E. (759) 84)

Power spectrum
Carbachol; Nucleus reticularis pontis oralis; Acetylcholine; Electroencephalography (EEG); Brainstem (Garzón, M. (766) 266)

PPAP
[^{3}H]Nemonapride; [^{3}H]Raclopride; σ Opioid receptor; Dopamine D_4 receptor (Tang, S.W. (765) 7)

P/Q-type Ca^{2+} channel
ω-Agatoxin IVA; Focal ischemia; Brain edema; Infarct size; Neuroprotection (Asakura, K. (776) 140)

Pramipexole
3-Acetylpyridine; Cerebellum; cGMP; ATP; Motor coordination; Bromocriptine (Sethy, V.H. (754) 181)

DA agonist; Parkinson's disease; Anterior caudate; Type II neuron (Piercey, M.F. (762) 19)

p21-ras
Tubulin; Cytoskeleton; Tumor suppressor gene; GTPase activating protein; NF1 (Xu, H.-m. (759) 149)

Prazosin
Idazoxan; Glutamate; GnRH; Locus coeruleus (Urbanski, H.F. (744) 96)

Proestrus; Preoptic area; Immunocytochemistry; Immediate early genes; Estrous cycle; Idazoxan; Rat (Le, W.-W. (747) 236)

Pre-Bötzinger complex
Vomiting; Respiratory center; Ventral respiratory group; Inspiratory neuron (Fukuda, H. (763) 30)

Predator induced analgesia
Parasite; Behavior; Analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induced analgesia; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Sex difference; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induction; Analgesia; κ opiate (Kavaliers, M. (768) 30)

Prefrontal cortex
6-Hydroxydopamine; *N*-Methyl-D-aspartate receptor; Norepinephrine neurons; Norepinephrine utilization; [^{3}H]*N*-(1-[2-Thienyl]-cyclohexyl)piperidine binding (Yoshida, Y. (744) 156)

Dopamine; 3,4-Dihydroxyphenylalanine; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Serotonin; Hydroxyindole acetic acid; Dihydrotestosterone; Estrogen; High-performance liquid chromatography (Handa, R.J. (751) 131)

Macaca mulatta; β-Amyloid; Senile plaque; Apolipoprotein E; Glia; Immunofluorescence; Carbocyanine double labelling (Härtig, W. (751) 315)

Heroin; Morphine; Opiate; Nucleus accumbens; Electrophysiology; Drug of abuse (Chang, J.-Y. (754) 12)

Dopamine; γ-Aminobutyric acid (GABA); 5-Hydroxyindoleacetic acid (5-HIAA); Ketamine; Microdialysis (Lindefors, N. (759) 205)

Dopamine; Anxiety; Elevated plus maze; 6-Hydroxydopamine; Locomotion; Rat (Espejo, E.F. (762) 281)

Noradrenaline; Locus coeruleus; NMDA; Kainate; Carbachol; Clonidine; Microdialysis (Van Gaalen, M. (763) 56)

Norepinephrine; Locus coeruleus; Excitatory amino acid; 2-Amino-5-phosphonopentanoic acid; 6-Cyano-7-nitroquinoxaline-2,3-dione (Jodo, E. (768) 327)

Cocaine; Dopamine transporter; Norepinephrine transporter; Stress (Meiergerd, S.M. (773) 203)

Preglomerular nucleus
Telencephalon; Neuronal tract tracing; Biocytin; Dextran-tetramethylrhodamine; Gymnotiform; *Apteronotus leptorhynchus* (Zupanc, G.K.H. (761) 179)

Pregnancy
$GABA_A$ receptor; Central-type benzodiazepine receptor; Peripheral-type benzodiazepine receptor; Lactation; Progesterone; Prolactin (Weizman, R. (752) 307)

Estrogen; Progesterone; Spinal cord; Opioid analgesia; Gender (Dawson-Basoa, M. (757) 37)

Neural tube closure; Development; Environment (Marret, S. (773) 213)

5α-Pregnane-3,20-dione
Progesterone; 3α-Hydroxy-5α-pregnane-20-one; Human brain (Bixo, M. (764) 173)

Allopregnanolone; Brain; Circadian rhythm; Mouse; Neurosteroid; Estrous cycle; Pregnenolone sulfate; Progesterone (Corpéchot, C. (766) 276)

Pregnenolonesulfate
$GABA_A$ receptor; Proopiomelanocortin; Diazepam-binding inhibitor; Octadecaneuropeptide; Trilostane; Pars intermedia (Garcia de Yebenes, E. (750) 277)

Neuromodulation; Glycine receptor; Cultured spinal neuron; Patch clamp; Competitive inhibition (Wu, F.-S. (750) 318)

Allopregnanolone; Brain; Circadian rhythm; Mouse; Neurosteroid; Estrous cycle; 5α-Pregnane-3,20-dione; Progesterone (Corpéchot, C. (766) 276)

Neurosteroid; Cultured hippocampal neurons; Whole-cell patch clamp recording; γ-Aminobutyric acid; Spontaneous release; Presynaptic action (Teschemacher, A. (772) 226)

Prelimbic cortex
Frontal cortex; Medial prefrontal cortex; Dorsal anterior cingulate cortex; Learning; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Reversal; Conditioned emotional response; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

Medial prefrontal cortex; Infralimbic cortex; Anxiety; Respiratory quotient; Passive avoidance; Autonomic; Rat (Jinks, A.L. (772) 181)

Premotor cortex
Primate; Monkey; Primary motor cortex; Immunocytochemistry; Architectonics (Preuss, T.M. (767) 148)

Prenatal
Reptile; Embryo; Differentiation; Brain; Age; Sexual experience (Crews, D. (758) 169)

Prenatal stress
Development; Critical period; Postnatal stress; Corticosterone; Rhythm (Koehl, M. (759) 317)

Interleukin-1β; Interleukin-6; Hypothalamic-pituitary-adrenal axis; Fever; Monkey (Reyes, T.M. (769) 29)

Preoptic area
Progesterone; c-*fos*; Immediate early gene; Progestin receptor; Hypothalamus (Auger, A.P. (746) 164)

Proestrus; Immunocytochemistry; Immediate early genes; Estrous cycle; Prazosin; Idazoxan; Rat (Le, W.-W. (747) 236)

Prostaglandin E_2 (PGE_2); Macrophage inflammatory protein-1β (MIP-1β); Chemokine; Fever; Hypothalamus; Organum vasculosum laminae terminalis (OVLT) (Armengol, J.A. (748) 245)

Gonadotropin releasing hormone; Female rat; Septal area; Vasomotion; Thermoregulation; Hot flush (Hosono, T. (754) 88)

Testosterone; Brain lesion; Excitotoxin; NMDA (*N*-methyl-D-aspartate); Sex behavior; Aromatase; Musk shrew (Veney, S.L. (756) 273)

Dexamethasone; Fos; Glucocorticoid; Hypothalamus; Immunocytochemistry; Jun (Briski, K.P. (768) 185)

Dorsal thalamus; Retrograde tracing; Anterograde tracing; Biocytin; Teleostei; Gymnotiformes (Zupanc, G.K.H. (776) 117)

Preoptic–hypothalamic
Norepinephrine; Dopamine content; 5-HIAA content; Plasma luteinizing hormone; Follicle-stimulating hormone; Prolactin (Anselmo-Franci, J.A. (767) 289)

Prepotential
Firing pattern; Oscillation; Glutamate; Self-excitation; Mitral cell; Olfactory bulb; Rat (Chen, W.R. (745) 189)

Preproenkephalin
Aging; Ischemia; Preprotachykinin; Striatum; Polymerase chain reaction (Tohgi, H. (768) 86)

PreproNPY mRNA
Neuropeptide Y; Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Streptozotocin; Diabetes; Hyperphagia (Sahu, A. (755) 339)

Preprotachykinin
Aging; Ischemia; Preproenkephalin; Striatum; Polymerase chain reaction (Tohgi, H. (768) 86)

Prepulse inhibition
Neurotensin; Sensorimotor gating; Nucleus accumbens; Dopamine (Feifel, D. (760) 80)

Startle; Serotonin 2A; Schizophrenia; Sensorimotor gating; Hallucinogens (Sipes, T.E. (761) 97)

Sleep; Wakefulness; Arousal; Startle reflex (Horner, R.L. (778) 127)

Presenilin-1
Alzheimer's disease; Rat; Presenilin-2; In situ hybridization (Takami, K. (748) 122)

S-182; Monoclonal antibody; Immunolabeling; Alzheimer disease; Down syndrome; Rat; Mice (Kim, K.S. (757) 159)

Alzheimer's disease; Beta amyloid protein; Presenilin 2; Immunohistochemistry; Mouse brain (Blanchard, V. (758) 209)

Presenilin-2
Alzheimer's disease; Rat; Presenilin-1; In situ hybridization (Takami, K. (748) 122)

Alzheimer's disease; Beta amyloid protein; Presenilin 1; Immunohistochemistry; Mouse brain (Blanchard, V. (758) 209)

p53 response protein
Cerebral ischemia; Rat; Cell cycle protein; DNA damage; DNA repair; Apoptosis (Li, Y. (765) 301)

Pressure injection
Signal transduction; Calcium release; Endoplasmic reticulum; Aequorin luminescence (Vallet, A.M. (768) 91)

Presubiculum
CA3; CA2; Subiculum; Psychosis; Pyramidal; Nonpyramidal; Neuroleptics (Benes, F.M. (755) 121)

Presynaptic
Ia; Kinesthetic receptor (Brooke, J.D. (766) 236)

Presynaptic action
Pregnenolone sulfate; Neurosteroid; Cultured hippocampal neurons; Whole-cell patch clamp recording; γ-Aminobutyric acid; Spontaneous release (Teschemacher, A. (772) 226)

Presynaptic blocker
Toosendanin; Inhibition; NG108-15 cell; Delayed rectifier potassium current; Whole-cell recording (Hu, Q. (751) 47)

Presynaptic bouton
Calcium-induced calcium release; Calcium channel; Purkinje neuron; Synapse; Endoplasmic reticulum (Ouyang, Y. (775) 52)

Presynaptic enhancement
Serotonin; Augmentation; Facilitation; Residual calcium (Qian, S.-M. (771) 259)

Presynaptic glutamate receptor
Electrical kindling; Epileptogenesis; Seizure; L-AP4; MPPG; In vitro $^{45}Ca^{2+}$ uptake; In vitro [^{3}H]D-aspartate release (Abdul-Ghani, A.-S. (755) 202)

Presynaptic inhibition
Excitatory amino acid; Paired pulse facilitation; Purinergic (Flagmeyer, I. (778) 178)

Presynaptic mechanism
Dopamine; Electroconvulsive shock; Fractional release; Striatum (Passarelli, F. (774) 239)

Presynaptic release
Morphine; Invertebrate ganglia; Dopamine; Anandamide; Serotonin (Stefano, G.B. (763) 63)

Prevertebral ganglion
Superior cervical ganglion; Stellate ganglion; Myenteric ganglion; Dorsal root ganglion (Dun, N.J. (760) 8)

Primary afferent
Substance P; NMDA receptor; Dorsal horn; Nociception; Pain (Aicher, S.A. (772) 71)

Primary auditory cortex
Cortical plasticity; Learning; Magnetoencephalography (MEG); Magnetic source imaging (MSI); Auditory discrimination; Association auditory cortex (Cansino, S. (764) 53)

Primary culture
Nitric oxide; Cerebellar astrocyte; Cell morphology; Cyclic guanosine monophosphate (Tomita, A. (744) 344)

Free radical; Glutathione; Anisotropy; Mouse; Astrocyte; Lipid peroxidation; Starvation (Papadopoulos, M.C. (748) 151)

α7 neuronal receptor; Cerebral cortex; Glutamate; Neuronal CNS receptor; Neuroprotection; Nicotine; *N*-Methyl-D-aspartate (Kaneko, S. (765) 135)

Primary motor cortex
Primate; Monkey; Premotor cortex; Immunocytochemistry; Architectonics (Preuss, T.M. (767) 148)

Primary somatosensory cortex
Sensory modulation; Receptive field; Tactile; Movement; Cutaneous (Courtemanche, R. (777) 170)

Primate
N-Methyl-D-aspartate receptor; AMPA; Calcium-binding protein; Immunocytochemistry (Huntley, G.W. (749) 245)

Somatostatin; Brain-derived neurotrophic factor; Gene expression; Central nervous system; Aging (Hayashi, M. (749) 283)

Imaging; Signal transduction; Radiotracer; Lipid (Chang, M.C.J. (755) 74)

Striate cortex; Extrastriate visual cortex; Subcortical visual pathway; Calcium-binding protein; Visual system; Thalamus (Gutierrez, C. (765) 349)

Amphetamine; Methamphetamine; Neurotoxicity; PET; Dopamine (Melega, W.P. (766) 113)

Monkey; Primary motor cortex; Premotor cortex; Immunocytochemistry; Architectonics (Preuss, T.M. (767) 148)

Primate brain
Limbic system; Vocalization; Neuroethology; Communication; Development (Newman, J.D. (758) 180)

Primate cuneate nucleus
Somatosensory plasticity; Nerve injury; Brainstem mapping; Cortex; Denervation (Xu, J. (774) 211)

Principal component analysis
Cryopreservation; Culture; Cerebral cortex; Mesencephalon; γ-Aminobutyric acid; Computerized morphometry (Petite, D. (747) 279)

Prion
Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Scrapie; Cytokine; Prostaglandin; Lipocortin; Neurodegeneration; Glia; Mouse (Williams, A. (754) 171)

Prion disease
Prion; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Thalamus; Insomnia (Macchi, G. (771) 154)

Prion protein
Prion; Prion disease; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Hippocampus; PrP-null; Mossy fibre sprouting; Synaptic reorganization (Colling, S.B. (755) 28)

Probenecid
Spreading depression; Microdialysis; *N*-Methyl-D-aspartate; DC potential; Organic anion transport; Kynurenic acid; Lactate (Taylor, D.L. (764) 117)

Processing
Thyrotropin releasing hormone (TRH); Biosynthesis; Convertase; PC1; PC2; Hybridization, in situ; Hypothalamus; Paraventricular nucleus (Sánchez, E. (761) 77)

Proenkephalin
Stress; Estrogen; Androgen; Hybridization, in situ; Corticotropin releasing factor; C-*fos*; Paraventricular nucleus; Hypertonic saline; Novelty heteronuclear RNA (Yukhananov, R.Y. (764) 109)

Proenkephalin gene
Cell cycle; Basal expression; Protein kinase (Hildebrand, B. (759) 285)

Proestrous rat
5-HT_3 receptor; Lordosis behavior; Lordosis quality; Ventromedial nucleus; Ovariectomized rat (Maswood, N. (769) 13)

Proestrus
Preoptic area; Immunocytochemistry; Immediate early genes; Estrous cycle; Prazosin; Idazoxan; Rat (Le, W.-W. (747) 236)

Progenitor cell line
Astrocyte; Type-1 astrocyte; Growth factor; Reactive gliosis; Astroglial cell line (Seidman, K.J.N. (753) 18)

Progesterone
c-*fos*; Immediate early gene; Progestin receptor; Hypothalamus; Preoptic area (Auger, A.P. (746) 164)

Estrogen; Spinal cord; Opioid analgesia (Dawson-Basoa, M. (750) 48)

Neurosteroid; Anxiety; GABA-A receptor; Mirrored chamber; Motor activity (Reddy, D.S. (752) 61)

$GABA_A$ receptor; Central-type benzodiazepine receptor; Peripheral-type benzodiazepine receptor; Pregnancy; Lactation; Prolactin (Weizman, R. (752) 307)

Dopamine transporter; Serotonin transporter; [^{3}H]BTCP; [^{3}H]Imipramine; Estradiol; α-Methyltestosterone; Gonadectomy (Attali, G. (756) 153)

Pregnancy; Estrogen; Spinal cord; Opioid analgesia; Gender (Dawson-Basoa, M. (757) 37)

5α-Pregnane-3,20-dione; 3α-Hydroxy-5α-pregnane-20-one; Human brain (Bixo, M. (764) 173)

Cytochrome *P*-450; Sex steroid; Testosterone; Competitive polymerase chain reaction; Induction; Suppression (Baum, L.O. (765) 67)

Allopregnanolone; Brain; Circadian rhythm; Mouse; Neurosteroid; Estrous cycle; 5α-Pregnane-3,20-dione; Pregnenolone sulfate (Corpéchot, C. (766) 276)

Peripheral benzodiazepine receptor; Central benzodiazepine receptor; Estradiol; Corticosterone; Steroidogenesis (Weizman, R. (772) 203)

Progestin receptor
Progesterone; c-*fos*; Immediate early gene; Hypothalamus; Preoptic area (Auger, A.P. (746) 164)

Programmed cell death
Apoptosis; Aging; Inner ear; Cochleo-saccular degeneration; Mouse (Usami, S.-i. (747) 147)

Brain damage; Bax; Bcl-2; Apoptosis; Hypoxic-ischaemia; Alzheimer's disease (MacGibbon, G.A. (750) 223)

Apoptosis; Necrosis; Rat; Neuron; Astrocyte; Heat shock; DNA fragmentation; TUNEL; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

NF-kB; *bcl-x*; Global ischemia; *bcl-x* gene promoter (Dixon, E.P. (776) 222)

Prohormone convertase
Neutral endopeptidase 24.11 (EC 3.4.24.11); Aminopeptidase N (EC 3.4.11.2); Haloperidol; Apomorphine (Waters, S.M. (754) 28)

Prokekephalin A
Leech; Mussel; Opioid binding; δ_2 opioid receptor; Met-enkephalin (Salzet, M. (768) 224)

Prolactin
$GABA_A$ receptor; Central-type benzodiazepine receptor; Peripheral-type benzodiazepine receptor; Pregnancy; Lactation; Progesterone (Weizman, R. (752) 307)

Sleep; REM sleep; Pituitary; Brain temperature (Obál Jr., F. (755) 130)

Frontal cortex; Thymus; CD4 and CD8 T-cells; Substantia nigra ventral tegmental area (Gaufo, G.O. (756) 191)

Nicotine; Atropine; Mecamylamine; Naloxone; Dopamine; TIDA neuron; Median eminence (Shieh, K.-R. (756) 266)

Preoptic–hypothalamic; Norepinephrine; Dopamine content; 5-HIAA content; Plasma luteinizing hormone; Follicle-stimulating hormone (Anselmo-Franci, J.A. (767) 289)

Tryptophan; Serotonin; Luteinizing hormone; Development (Martin, L. (774) 265)

Proliferation
Somatostatin receptor; Desensitization; Glial cell; Immunostaining; Octreotide (Feindt, J. (746) 309)

Cell cycle; Olidodendroglia; Microglia; Astroglia; Neuroglia; Image analysis (Vela Hernández, J.M. (747) 130)

Corneal epithelium; Limbal epithelium; Conjunctival epithelium; Opioid; Naltrexone; [Met^5]-enkephalin; Cell renewal; Eye (Zagon, I.S. (759) 92)

Alcohol; Cell cycle; Fetal alcohol syndrome; Growth factor; Kinetics; Neuroblastoma; Receptor (Luo, J. (770) 139)

Developing brain; Injury; Reactive astrocyte; Interferon gamma; Rat (Pawliński, R. (773) 231)

Proline
Synaptic plasticity; Long-term potentiation; Hippocampus; NMDA receptor; Paired-pulse facilitation; Hyperprolinemia (Cohen, S.M. (761) 271)

Synaptic plasticity; Hippocampus; Glutamate; Aspartate; Transmitter release; Paired pulse facilitation; Hyperprolinemia (Cohen, S.M. (769) 333)

Prolongation
Anesthetic; Decay kinetics; γ-Aminobutyric acid (GABA); Halothane; Half-width; Hippocampus; Inhibitory postsynaptic current (IPSC) (Lukatch, H.S. (765) 108)

Prolonged postictal convulsive state
Kindling; Chronic epilepsy; Spontaneous seizure; Dominant focus; Mossy fiber sprouting (Timofeeva, O.A. (754) 227)

Promoter
Opioid; Receptor; Transcription (Liang, Y. (769) 372)

Pro-opiomelanocortin
Opioid; Cardiovascular regulation; Post-translational processing; Glycyl-L-glutamine; Dipeptide (Unal, C.B. (747) 52)

$GABA_A$ receptor; Diazepam-binding inhibitor; Pregnenolonesulfate; Octadecaneuropeptide; Trilostane; Pars intermedia (Garcia de Yebenes, E. (750) 277)

mRNA; Pituitary; 5-Hydroxytryptamine; 5,7-Dihydroxytryptamine (García-García, L. (772) 115)

Pro-opiomelanocortin neuron
β-Endorphin; Mediobasal hypothalamus; Biological rhythm; Schizophrenia; Depression (Jamali, A.K. (771) 45)

Proprioception
Eccentric exercise; Muscle damage; Muscle spindle; Tendon organ; Fatigue; Soreness; Voluntary contraction (Brockett, C. (771) 251)

Prostaglandin
Mycoplasma fermentans; Brain; Sickness; Behavior; Body temperature; AIDS (Yirmiya, R. (749) 71)

Sleep deprivation; Cerebrospinal fluid; Subarachnoid space; Basal forebrain; Stress; Brain temperature; Conscious rat (Ram, A. (751) 81)

Scrapie; Prion; Cytokine; Lipocortin; Neurodegeneration; Glia; Mouse (Williams, A. (754) 171)

EPA-E; SHRSP; l-CBF; l-CGU; Hypertension; Vasodilation (Katayama, Y. (761) 300)

Prostaglandin E_2
α-Trinositol; Antinociception; Spinal microdialysis; Amino acid; Formalin test (Malmberg, A.B. (747) 160)

Wide dynamic range neuron; Hyperalgesia; Analgesia; Pain; Central nervous system; Brain (Oka, T. (749) 354)

Dorsal root ganglion; Bradykinin; Capsaicin; Pain sensory cell; C-fiber (Noda, K. (751) 348)

Hyperthermia; EP_1 receptor; 17-Phenyl-ω-trinor prostaglandin E_2; Diagonal band of Broca; Anterior wall of the third ventricle; Fever (Oka, K. (767) 92)

Hyperalgesia; Analgesia; 17-Phenyl-ω-trinor prostaglandin E_2; MB28767; Pain; Central nervous system (Oka, T. (771) 278)

Alzheimer's disease; Human astrocytes; Interleukin-1β; Interleukin-6 (Blom, M.A.A. (777) 210)

Prostaglandin E_2 (PGE_2)
Macrophage inflammatory protein-1β (MIP-1β); Chemokine; Fever; Hypothalamus; Organum vasculosum laminae terminalis (OVLT); Preoptic area (Armengol, J.A. (748) 245)

Hyperthermia; Vagotomy; c-fos; Sickness; Rat; Immediate-early gene (Milligan, E.D. (766) 240)

Prostaglandin I_2 analog
Brain ischemia; Passive avoidance task; Delayed neuronal death; Synapse; Gerbil (Matsuda, S. (769) 321)

Protamine
Blood–nerve barrier; Perineurium; Inflammation; Inflammatory mediator; Bile salt; Frog; Amphibian (Todd, B.A. (776) 214)

Protease inhibitor
Leupeptin; Lipofuscin; Degenerated neuron and process; Dentate gyrus; Hippocampus; Memory; Step-down passive avoidance task (Arai, T. (754) 157)

Protection
Ischemia; Hippocampus; Melatonin (Cho, S. (755) 335)

Protein
Hypothalamus; Infusion; Diet selection; Fat; Carbohydrate; Enriched; Macronutrient (Van Dijk, G. (777) 147)

G-Protein
Alcohol; Membrane current; Snail; *Helix pomatia*; Invertebrate; Protein kinase C (Kerschbaum, H.H. (765) 30)

Proteinase
Calpain; Expression; Spinal cord; Trauma; Neurofilament protein (Banik, N.L. (752) 301)

Protein carbonyl
Aging; Synaptic mitochondrion; Thiol; Antioxidant (Banaclocha, M.M. (762) 256)

Protein folding
Cyclophilin A; Peptidyl-prolyl *cis-trans* isomerase; Molecular chaperone; Actin; Axon; Slow axonal transport; Data searching (Yuan, A. (771) 203)

Protein gene product 9.5
Degeneration; Regeneration; Periodontal ligament; Neuropeptide Y; Ruffini ending; Inferior alveolar nerve; Nerve injury (Youn, S.H. (752) 161)

Protein kinase
Proenkephalin gene; Cell cycle; Basal expression (Hildebrand, B. (759) 285)

Cyclic guanosine monophosphate; Cyclic adenosine monophosphate; Phosphodiesterase; Autoradiography; Rat brain (Bonkale, W.L. (763) 1)

Second messenger; Hyperalgesia; Pain (Sluka, K.A. (772) 82)

Protein kinase A
G-protein; *N*-ethylmaleimide; GDP-β-S; High voltage-activated calcium channel; Pertussis toxin; Neuroprotective drug; Riluzole (Huang, C.-S. (762) 235)

Microculture; Autapse; Glutamatergic transmission; Synaptogenesis; Serum-free culture; cAMP (Leßmann, V. (763) 111)

Glycine receptor; $GABA_A$ receptor; Bicuculline; Strychnine; Protein kinase C; G protein; Calcium (Tapia, J.C. (769) 203)

Cocaine; Conditioned place preference; Protein kinase C; H7; Chelerythrine; H89 (Cervo, L. (775) 30)

Protein kinase C
N-Methyl-D-aspartate receptor; $Neurokinin_1$ receptor; Substance P; Glycine; Dorsal horn (Heppenstall, P.A. (744) 235)

Hippocampal slice; High potassium-induced long-term potentiation (Roisin, M.-P. (745) 222)

Cochlea; Deafness; AMPA; Dendritic swelling; Neurite regeneration; Plasticity (Lerner-Natoli, M. (749) 109)

Cerebral ischemia; Middle cerebral artery occlusion; Rat; Autoradiography; Second messenger (Tohyama, Y. (750) 155)

G-protein; Phospholipase A; Phospholipase C; Arachidonic acid; Diacylglycerol; Associative learning; Memory (Talk, A.C. (751) 196)

ACh receptor; Linoleic acid; Linolenic acid; Ca^{2+}, voltage-clamp; *Xenopus* oocytes (Nishizaki, T. (751) 253)

Isozyme; Streptozotocin; Diabetic neuropathy (Roberts, R.E. (754) 147)

Apis mellifera; Actin; Brain; Calmodulin; MARCKS (Müller, U. (757) 24)

Alzheimer's disease; Calcium; Platelet; Brain; Leukocyte (Lanius, R.A. (764) 75)

Ethanol; Righting reflex; Calphostin C; Phorbol 12,13-dibutyrate; Diabetes (Ohsawa, M. (764) 244)

Alcohol; Membrane current; Snail; *Helix pomatia*; Invertebrate; G-Protein (Kerschbaum, H.H. (765) 30)

Ca^{2+}/calmodulin-dependent protein kinase II; Neurite outgrowth; Isoforms, α and β; Neuroblastoma; Protein kinase inhibitor (Nomura, T. (766) 129)

Glycine receptor; $GABA_A$ receptor; Bicuculline; Strychnine; Protein kinase A; G protein; Calcium (Tapia, J.C. (769) 203)

Alzheimer's disease; Signal transduction (Luo, Y. (769) 287)

Arachidonic acid; Hippocampus; Synaptosome; Amino acid; Uptake carrier; Exocytosis (Breukel, A.I.M. (773) 90)

Bipolar cell; Retina; Goldfish; Image analysis; Dopamine (Vaquero, C.F. (773) 208)

Autoradiography; Ischemia; Mouse; Middle cerebral artery; Nitric oxide synthase; Substantia nigra (Hara, H. (774) 69)

Nucleus tractus solitarius; Signal transduction; Respiratory control; Hypoxia; Ventilation (Gozal, D. (774) 246)

Cocaine; Conditioned place preference; Protein kinase A; H7; Chelerythrine; H89 (Cervo, L. (775) 30)

Vestibular compensation; Medial vestibular nuclei; Guinea pig; Neural plasticity; Protein phosphorylation (Sansom, A.J. (778) 166)

Protein kinase C substrate
Postsynaptic protein; Synaptic plasticity; Hippocampus; Learning and memory; Calmodulin (Chen, S.-J. (749) 181)

Protein kinase C translocation
In situ phosphorylation; MARCKS; Neurogranin; Two-dimensional gel electrophoresis; Phorbol ester; Hippocampal slice (Angenstein, F. (745) 46)

Protein kinase inhibitor
Ca^{2+}/calmodulin-dependent protein kinase II; Protein kinase C; Neurite outgrowth; Isoforms, α and β; Neuroblastoma (Nomura, T. (766) 129)

Protein phosphatase
Calcineurin; Cortical neuron; Glutamatergic synapse; Calyculin; Microcystin; Cyclosporine A; FK506 (Thomas, G.D. (749) 101)

Protein phosphorylation
Glial fibrillary acidic protein; Vimentin; Kainic acid; Neurotoxicity; Excitatory amino acid; Gliosis; Astrocyte (Lenz, G. (764) 188)

Vestibular compensation; Medial vestibular nuclei; Guinea pig; Neural plasticity; Protein kinase C (Sansom, A.J. (778) 166)

Protein secretion
Electrical field stimulation; Vasoactive intestinal polypeptide; Neuropeptide Y; Lacrimal gland; Pig (Adeghate, E.A. (758) 127)

Protein synthesis
Cell death; Auditory system; Nucleus magnocellularis; Y10B antibody; Deafferentation; Brain slice (Hyson, R.L. (749) 61)

Activin; Neurotrophic effect; Ca^{2+} influx; Ca^{2+} channel; Hippocampal neuron (Iwahori, Y. (760) 52)

Ca^{2+}-ATPase; Calcium homeostasis; Cell culture; Electron microscopy; Endoplasmic reticulum; Ribosomal aggregation (Doutheil, J. (775) 43)

Protein-synthesis inhibitor
Amphetamine; Dopamine; Glutamate; γ-Aminobutyric acid; Calcium-channel blockers; Cortex; Behavioral sensitization (Karler, R. (757) 228)

Proteoglycan
Neural cell adhesion molecule; Brain; Heparan sulfate; Immunocytochemistry; Synaptic plasticity (Fuxe, K. (746) 25)

Proteolipid protein
Myelin basic protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Myelin-associated glycoprotein; Platelet-derived growth factor receptor; Thyroid hormone; Hyperthyroidism; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Proteolysis
Calpain; Cytoskeleton; Middle cerebral artery; Immunocytochemistry; Image-analysis; Rat (Morimoto, T. (746) 43)

Prothoracicotropic hormone
Muscarinic acetylcholine receptor; Neuropeptide secreting neuron; Silkworm; *Bombyx mori* (Aizono, Y. (763) 131)

Proton
Irritant; Spice; Black pepper; Chemosensitivity; Capsaicin; Synergy; Antagonist; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

Proton magnetic resonance spectroscopy
Blood–brain barrier; Difference spectroscopy; Hyperphenylalaninemia; Michaelis–Menten kinetics; Phenylalanine transport; Phenylketonuria; Saturation kinetics (Möller, H.E. (778) 329)

Protonophore
Fura-2; Cytosolic calcium; Calcium ion channel antagonist; Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone; Calcium ion removal (Sato, M. (768) 37)

Proton pump
CO; Extracellular pH; HEPES buffer; Hypoxia; Intracellular pH (Osanai, S. (764) 221)

PrP-null
Prion protein; Hippocampus; Mossy fibre sprouting; Synaptic reorganization (Colling, S.B. (755) 28)

PSA-NCAM
NCAM; Neuronal cell adhesion molecule; Polysialic acid; Aging; Memory deficit; Hippocampus; Immunohistochemistry; Western blot (Abrous, D.N. (744) 285)

P-selectin
HSP72; Cerebral ischemia; Rat; Middle cerebral artery (Suzuki, H. (759) 321)

Pseudoplasticity
Plasticity; Reorganization; Tonotopic map; Dorsal cochlear nucleus (Meleca, R.J. (750) 201)

Pseudorabies virus
$GABA_A$ receptor; NMDA receptor; Immunofluorescence; Confocal laser microscopy; Dorsal motor nucleus of the vagas nerve; Rat (Broussard, D.L. (763) 123)

Psychological stress
Aging; Hypothalamus; Noradrenaline; Intracerebral microdialysis (Wu, Y.L. (771) 347)

Psychomotor stimulant
Motor behavior; Amphetamine; Single unit recording; Striatum; Rat (West, M.O. (745) 331)

Nucleus accumbens; Cocaine; Single neuron recording; Self-administration; Appetitive behavior; Incentive stimulus; Reward (Peoples, L.L. (757) 280)

Motor behavior; Cocaine; Single unit recording; Striatum; Rat (Pederson, C.L. (760) 261)

Methylphenidate; Dose response; Motor activity; Chronobiology; Behavior; Diurnal rhythm (Gaytan, O. (777) 1)

Psychosis
CA3; CA2; Subiculum; Presubiculum; Pyramidal; Nonpyramidal; Neuroleptics (Benes, F.M. (755) 121)

Antimuscarinic; Mesopontine; Hyperactivity; Dopaminergic; Cholinergic (Mathur, A. (775) 144)

Psychostimulant
Amphetamine; c-Fos; Fos related antigen; Sensitization; CREB (Turgeon, S.M. (749) 120)

Pterygopalatine ganglion
Superior salivatory nucleus; Glutamate; γ-Aminobutyric acid; Glycine receptor; Immunohistochemistry; Cholera toxin B subunit; Wheat germ agglutinin conjugated horseradish peroxidase (Kobayashi, M. (766) 72)

PTHrP
Hypothalamus; Intracellular Ca^{2+} concentration; Colchicine; Immunohistochemistry; Rat (Tokunaga, M. (774) 216)

Puberty
Luteinizing hormone; γ-Aminobutyric acid; Bicuculline; Muscimol; Male rat (Mitsushima, D. (748) 258)

Glutamate; GnRH; Aging; Hypothalamus (Flynn, K.M. (771) 142)

Purine
Sodium channel; Penumbra; Ischemia; Hippocampus; Neuroprotective drugs; Ion-sensitive microelectrode; Energy metabolism (Ashton, D. (745) 210)

Purinergic
Presynaptic inhibition; Excitatory amino acid; Paired pulse facilitation (Flagmeyer, I. (778) 178)

Purinoceptor
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Glutamate reuptake; Microdialysis; Phenylephrine; Frontoparietal cortex; Awake (Alexander, G.M. (766) 1)

Axotomy; Extracellular signal regulated kinase 1; Vagus nerve; Hypoglossal nerve; Hybridization, in situ (Mishima, K. (766) 50)

Embolus; Focal cerebral ischemia; MRI; Laser confocal microscopy (Zhang, R.L. (766) 83)

Prostaglandin E_2 (PGE_2); Hyperthermia; Vagotomy; c-fos; Sickness; Immediate-early gene (Milligan, E.D. (766) 240)

Bed nucleus of stria terminalis; Pituitary adenylate cyclase activating polypeptide immunoreactive axon terminal; Vasoactive intestinal polypeptide immunoreactive axon terminal; Corticotropin releasing factor immunoreactive neuron; Immunohistochemistry; Electron microscopy (Kozicz, T. (767) 109)

Hippocampus; Metabotropic glutamate receptor; Medial perforant path; Lateral perforant path; (1*S*,3*R*)-1-Aminocyclopentane-1,3-dicarboxylic acid; L(+)-2-Amino-4-phosphonobutyric acid; 'Paired-pulse' plasticity (Dietrich, D. (767) 220)

CGRP; Red nucleus; Axotomy; BDNF; In situ hybridization (Fukuoka, T. (767) 250)

Extracellular recording; Single neuron; Nucleus accumbens; Subterritory; Shell; Core; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Gamma oscillation; Barrel cortex; EEG (Jones, M.S. (768) 167)

$GABA_A$ receptor; Neurosteroid; Benzodiazepine; Medulla; 3α-Hydroxy-5α-pregnan-20-one; Allopregnanolone; Female (Garrett, K.M. (768) 301)

Brain microdialysis; Capillary zone electrophoresis; Glutamate; Feeding (Rada, P. (768) 338)

Calretinin; Ruffini ending; Mechanoreceptor; Periodontal ligament (Ochi, K. (769) 183)

Opioid; Lactation; Naltrexone; Opioid mRNA; Arcuate nucleus; Pituitary (Kim, E.-M. (769) 303)

Suprachiasmatic nucleus; Cytochrome oxidase; Quantitative histochemistry (López, L. (769) 367)

Self-mutilating behavior; *d*-Amphetamine; *R*(+)-SCH-23390; (±)-Sulpiride; Haloperidol; Dopamine (Lara-Lemus, A. (770) 60)

NGFI-B; c-*fos*; Lactation; Stress; Paraventricular nucleus; Lateral septum; Amygdala (Da Costa, A.P.C. (770) 151)

Endotoxin; Tumor necrosis factor; Sleep; Electroencephalographic spectral analysis; Brain temperature (Lancel, M. (770) 184)

Astrocyte; Ethanol; mRNA; Metallothionein; In vitro; Hypotonic (Aschner, M. (770) 289)

Hyperalgesia; Neuropathic pain; Pain; Spinalization; Sciatic nerve (Kauppila, T. (770) 310)

Perinatal lead exposure; Septohippocampal system; Cholinergic neurons; ChAT activity; ChAT immunocytochemistry; HC-3 binding; AChE histochemistry (Bourjeily, N. (771) 319)

Acetylcholine; Serotonin; *p*-Chloroamphetamine; 5-HT_4 receptor; Frontal cortex (Yamaguchi, T. (772) 95)

Lithium; Arginine vasopressin; Supraoptic nucleus; Paraventricular nucleus; In situ hybridization (Anai, H. (772) 161)

Medial prefrontal cortex; Infralimbic cortex; Prelimbic cortex; Anxiety; Respiratory quotient; Passive avoidance; Autonomic (Jinks, A.L. (772) 181)

Sleep; Waking; Intermediate stage; GABA antagonist, type B; Theta rhythm; Spindle (Gauthier, P. (773) 8)

Microdialysis; Dopamine release; 1-Methyl-4-phenylpyridinium; Iron chelator; Substantia nigra (Matarredona, E.R. (773) 76)

Hippocampal slice; Benzodiazepine; Midazolam; Synaptic transmission; Intracellular recording (Sato, Y. (773) 98)

Brain damage; Free radical; Hypoxic ischemia; Lipid peroxidation; Malondialdehyde; Perinatal; Semi-dehydroascorbate radical (Bågenholm, R. (773) 132)

Interleukin-1; Lipopolysaccharide; Sickness behavior; Sexual behavior; Partner preference; Open field test; Gender difference (Avitsur, R. (773) 149)

Developing brain; Injury; Reactive astrocyte; Interferon gamma; Proliferation (Pawliński, R. (773) 231)

Neurotensin; Periaqueductal gray matter; Opioid; γ-Aminobutyric acid; Microdialysis (Stiller, C.-O. (774) 149)

WAY 100635; Serotonin 5-HT_{1A} receptor; 7-Chloro-kynurenic acid; Glycine site; NMDA receptor; Scopolamine; Hippocampus; Spatial learning (Carli, M. (774) 167)

Nucleus X; Somatosensory system; Brainstem; Medulla oblongata; Inferior colliculus; Thalamus; Cerebellum (Li, H. (774) 200)

PTHrP; Hypothalamus; Intracellular Ca^{2+} concentration; Colchicine; Immunohistochemistry (Tokunaga, M. (774) 216)

Colchicine; Forebrain ischemia; Hippocampus; Delayed neuronal death; CA1 neuron (Kimura, M. (774) 229)

Artificial ureteral calculosis; Estrus; Pain-related behavior (Giamberardino, M.A. (774) 234)

Substantia nigra pars reticulata; Parvicellular reticular formation; Motor trigeminal nucleus; Monosynaptic contact (Yasui, Y. (775) 219)

GABA turnover; Gonadal steroid; Hypothalamus; Ventromedial nucleus; Medial preoptic nucleus; Sexually dimorphic nucleus (Grattan, D.R. (775) 244)

Cholecystokinin; Hepatic branch; Satiety; Vagus nerve; Visceral afferent (Cox, J.E. (776) 189)

GDNF; Ischemia; Middle cerebral artery (Abe, K. (776) 230)

Adenosine; Ethanol; Chloride; Striatum (Meng, Z.-H. (776) 235)

Nitric oxide; NADPH-diaphorase; NOS; Medial amygdala; Paraventricular nucleus; Cholera toxin B subunit (Tanaka, M. (777) 13)

Nucleus of the solitary tract; Subfornical organ; Noradrenergic pathway; Phentolamine; Timolol; Microiontophoresis; Hemorrhage; Baroreceptor activation (Tanaka, J. (777) 237)

Thromboembolic stroke; MCA occlusion; Thrombolysis; rt-PA; rCBF (Busch, E. (778) 16)

Mercury vapor Hg^0; In utero; Metallothionein; Brain; Astrocyte; Biomarker (Aschner, M. (778) 222)

Adrenalectomy; Granule cell death; Nissl and silver staining; Glucocorticoid receptor; Immunohistochemistry (Hu, Z. (778) 293)

Glutamate; Immunohistochemistry; Visceral sensory neuron; Vagus nerve ganglion (Schaffar, N. (778) 302)

Brain; Calcium; Calcyclin; Astrocyte; Neuronal migration pathway (Yamashita, N. (778) 388)

Callosal neuron; Callosotomy; Retrograde double labeling; Fast Blue (FB); Diamidino Yellow · 2HCl (DY · 2HCl) (Orihara, Y.I. (778) 393)

Rat brain
Magnetic resonance spectroscopic imaging; Diffusion-weighted imaging; *N*-Acetylaspartate; Creatine; Choline; Kainate; Epilepsy (Tokumitsu, T. (744) 57)

Serotonin; 5-HT_6 receptor; Anti-peptide antibodies; Immunoautoradiography; Immunocytochemistry (Gérard, C. (746) 207)

Focal cerebral ischemia; Magnetic resonance imaging; Diffusion; Perfusion; Oxygenation (Dijkhuizen, R.M. (750) 161)

Subacute lead exposure; NMDA receptor; Hippocampus; Cerebral cortex; Autoradiography; Blood lead; Brain lead (Ma, T. (760) 187)

Cyclic guanosine monophosphate; Cyclic adenosine monophosphate; Protein kinase; Phosphodiesterase; Autoradiography (Bonkale, W.L. (763) 1)

Nitric oxide; Nitric oxide synthase; Anesthetic; Inhalational; Halothane (Tagliente, T.M. (767) 393)

Cyanide generation; Rat pheochromocytoma cell; Opiate receptor; Cultured rat cerebellar granule cell (Borowitz, J.L. (768) 294)

Tonin; Kallikrein; Angiotensinase; Angiotensin II (Lopes, E.S. (769) 152)

Nerve growth factor; Enzyme-linked immunosorbent assay; Gel filtration; High molecular weight molecule; Association; Sedimentation (Hoener, M.C. (772) 1)

Inorganic phosphate transporter; NaP_i-2; Reverse transcription-polymerase chain reaction (RT-PCR); Immunohistochemistry; Nonpyramidal neuron (Hisano, S. (772) 149)

PET; Imaging; Opioid receptor antagonist; Dopamine receptor binding; Nalmefene (Unterwald, E.M. (775) 183)

GTP-cyclohydrolase-I; Tetrahydrobiopterin; Immunohistochemistry; Monoaminergic neuron (Dassesse, D. (777) 187)

GTP sensitivity; Agonist binding; Radioiodinated ligand (Vessotskie, J.M. (778) 89)

Rat cerebral cortex
N-Methyl-D-aspartate; Sulfhydryl; Tissue culture; Glutamate; Neurotoxicity (Sinor, J.D. (747) 297)

Rat cerebral cortex primary culture
Dynorphin; Enkephalin; Peptidase; Mass spectrometry; Morphine dependence (Vlaskovska, M. (760) 85)

Rat CSF
ADP-ribosylarginine hydrolase; Immunohistochemistry; Mouse brain; Western blotting; Arginine specific ADP-ribosylation (Miyaoka, T. (746) 1)

Rat dorsal root ganglia
Polyarthritis; Met-enkephalin; Dynorphin A 1–8; mRNA; In vivo spinal release (Pohl, M. (749) 18)

Rat glial cell
Trophic factor; Extracellular matrix; Adhesion molecule (Mahler, M. (775) 63)

Rat hippocampal neuron
Thrombin receptor; Thrombin receptor agonist peptide (TRAP); cAMP; Calcium (Yang, Y. (761) 11)

Rat hippocampus
Cerebral ischemia; Delayed neuronal death; Hydroxyl radical; MCI-186; Radical scavenger (Yamamoto, T. (762) 240)

$GABA_A$ receptor; γ2 subunit; Antisense oligodeoxynucleotide; Diazepam; Radioligand binding (Karle, J. (765) 21)

Rat pheochromocytoma cell
Cyanide generation; Opiate receptor; Rat brain; Cultured rat cerebellar granule cell (Borowitz, J.L. (768) 294)

Rat pituitary
Thyroid hormone receptor; mRNA; Antibody (Li, M. (773) 125)

Rat spinal cord
Neuropeptide Y; Antibody microprobe; Spontaneous release; Cat spinal cord; Spinal transection (Mark, M.A. (754) 195)

Rat striatum
Focal ischemia; Apoptosis; Enkephalin; TUNEL; Hybridization, in situ (Popovici, T. (744) 185)

μ-Opioid receptor; Dopamine release; AF64-A; Methoctramine; Microdialysis; γ-Aminobutyric acid (GABA) (Dourmap, N. (749) 295)

σ Receptor; Neuropeptide Y; Dopamine release; PYX-1 (Ault, D.T. (760) 210)

Rat trigeminal nucleus
Oralis subnucleus; Wind-up; MK-801; *N*-Methyl-D-aspartate; Nociception (Parada, C.A. (761) 313)

Reaction time
Startle; Attention; Experimental set; Reticulospinal pathway; Habituation; Electromyography (Valls-Solé, J. (751) 155)

Reactive astrocyte
Nestin; Intermediate filament; Infarction; Ischemia; Cortex (Duggal, N. (768) 1)

Developing brain; Injury; Interferon gamma; Proliferation; Rat (Pawliński, R. (773) 231)

Reactive gliosis
Astrocyte; Progenitor cell line; Type-1 astrocyte; Growth factor; Astroglial cell line (Seidman, K.J.N. (753) 18)

Amyloid β protein; Alzheimer's disease; Human amylin; Astrocytes; Cellular redox activity (Abe, K. (762) 285)

Reactive neurogenesis
Lizard, telencephalon; Reptile; Neurotoxin; Degeneration; Regeneration; Telencephalon; [^{3}H]Thymidine (Font, E. (754) 245)

Reactive oxygen species
Lipid peroxidation; Peroxynitrite; Brain; Cell death (Ekert, P. (747) 9)

MPTP; Oxidative stress; Glutathione; Brain slice; Brain; Neurotoxicity; Complex I (Sriram, K. (749) 44)

Mitochondrial metabolic activity; Lipid peroxidation; Excitotoxicity; Neuron degeneration; Superoxide dismutase; Catalase; Glutathione peroxidase (Azbill, R.D. (765) 283)

Reading
Magnetoencephalography; Event-related potential; Temporal lobe; N400; Human; Sentence comprehension (Simos, P.G. (762) 29)

RecA protein
Recombination; DNA repair; Neuron; Glia (Araneda, S. (762) 103)

Receptive field
Neural plasticity; Dorsal horn; Supraspinall; Cat (Garrison, D.W. (762) 228)

Primary somatosensory cortex; Sensory modulation; Tactile; Movement; Cutaneous (Courtemanche, R. (777) 170)

Receptor
Zinc oxide; Glutamate; Glycine; *N*-Methyl-D-aspartate; CGP-39653 (Terse, P.S. (744) 347)

Neuronal nicotinic; Lead; Metal; Neuroblastoma; Ion current; Whole cell voltage clamp; Acetylcholine (Oortgiesen, M. (747) 1)

Angiotensin II; Dopamine; Haloperidol; Mouse; Nucleus accumbens; Striatum (Jenkins, T.A. (748) 137)

Cytokine; Trigeminal ganglion; Meninges; Tumor necrosis factor (TNF) (Cunningham Jr., E.T. (758) 99)

Peptide YY; Neuropeptide Y; Pancreas; Brainstem; Limbic; Hypothalamus; Vagus; Rat (Whitcomb, D.C. (760) 137)

Nociceptin; Orphanin FQ; Hypothalamus; Dynorphin A; Opioid (Makman, M.H. (762) 247)

HIV; AIDS; Central nervous system; Microglia; Astrocytes; Organotypic culture; Endocytosis (Hao, H.-N. (764) 149)

AMPA; Perforant pathway lesion; Immunocytochemistry; Up-regulation; Hippocampus (Mizukami, K. (768) 354)

Promoter; Opioid; Transcription (Liang, Y. (769) 372)

Alcohol; Cell cycle; Fetal alcohol syndrome; Growth factor; Kinetics; Neuroblastoma; Proliferation (Luo, J. (770) 139)

Calcitonin receptor-like receptor; Calcitonin gene-related peptide; In situ hybridization (Flühmann, B. (774) 184)

δ Receptor
Antisense mapping; DOR-1; δ_1; δ_2; Analgesia (Rossi, G.C. (753) 176)

σ Receptor
Phencyclidine; Immediate-early gene; c-*fos*; Rimcazole; 1,3-Di(2-tolyl)guanidine; Pentazocine; Rat (Sharp, J.W. (758) 51)

Neuropeptide Y; Rat striatum; Dopamine release; PYX-1 (Ault, D.T. (760) 210)

Receptor associated protein
Apolipoprotein E; Synthetic peptide; Endocytosis; Cytoplasmic calcium; $[Ca^{2+}]_i$; Neuron (Wang, X.-s. (778) 6)

Receptor autoradiography
Neuropeptide Y; Zucker rats; Obesity; [^{125}I]PYY; [^{125}I][Leu^{31},Pro^{34}]PYY; Y5 'feeding' receptor (Widdowson, P.S. (758) 17)

Isoguvacine; Arterial blood pressure; Heart rate; Flumazenil; Benzodiazepine; Medulla (Barron, K.W. (773) 53)

Neuropeptide Y; Obesity; Hypothalamus; Energy balance; Thermogenesis (Widdowson, P.S. (774) 1)

Neuropeptide Y; Y_5 receptor; [^{125}I]PYY(3–36) (Widdowson, P.S. (778) 242)

Receptor coupling
Serotonin; Antidepressant; 5-HT uptake inhibitor; SSRI; Gpp(NH)p; 8-OH-DPAT binding; Hypothalamus (Li, Q. (769) 141)

Serotonin; SSRI; 5-HT_2; 5-HT_2 receptor; Antidepressant; G-protein (Li, Q. (775) 225)

Receptor localization
Calcium; Calcium receptor; Calcium sensing receptor; Parathyroid; G protein coupled receptor; Subfornical organ; Fluid homeostasis; Ion homeostasis (Rogers, K.V. (744) 47)

Receptor, μ-, δ-, κ_1- and κ-
μ-Knockout; Transgenic mouse; *MOR* gene; Opioid receptor; Autoradiography; Opioid receptor mapping; Gene deletion (Kitchen, I. (778) 73)

Receptor plasticity
Depression; Epilepsy; Neuropeptide Y receptor subtype; Peptide YY (Greisen, M.H. (776) 105)

Receptor site
Olfaction; Amino acid; Bile salt; Zebrafish (Michel, W.C. (764) 179)

Receptor subtype
Epilepsy; Serotonin; Kindling; Seizure; 8-OH-DPAT; DOI; Ketanserin (Wada, Y. (747) 338)

Recombinant βAPP
Alzheimer's disease; β-Secretase; Cathepsin D; Acidic protease; Swedish mutation; FCA18 antibody (Chevallier, N. (750) 11)

Recombination
RecA protein; DNA repair; Neuron; Glia (Araneda, S. (762) 103)

Recording, in vivo
Inferior colliculus; Auditory system; Intracellular (Pedemonte, M. (759) 24)

Recovery
6-Hydroxydopamine; Regeneration; Neurotrophic factor; Dopaminergic neuron; Neurodegeneration; Direct gene transfer; Substantia nigra; Dopamine turnover (Lapchak, P.A. (777) 153)

Recovery of function
Ethanol; NMDA antagonist; Pyramidal neuron; Dendritic pruning; Sensorimotor cortex (Kozlowski, D.A. (763) 159)

Recruitment order
Phrenic motoneuron; Excitability; Postnatal development (Su, C.-K. (774) 62)

Recurrent laryngeal nerve
Adult rat; Phrenic nerve; Coherence; High frequency oscillations; Medium frequency oscillations; Urethane; Barbiturate (Kocsis, B. (745) 309)

Recurrent seizure
Immunocytochemistry; Opioid peptide; Epilepsy; Hippocampal plasticity (Simpson, J.N. (747) 318)

Red nucleus
Rat; CGRP; Axotomy; BDNF; In situ hybridization (Fukuoka, T. (767) 250)

Adenovirus; β-Galactosidase; Gene transfer; Spinal cord; Immune response; Cyclosporin A; Clarke's nucleus (Liu, Y. (768) 19)

5α-Reductase
Dihydrotestosterone; Birdsong; *Robustus archistriatalis*; Aza-steroid; Aromatase (Grisham, W. (750) 122)

Reeler mouse
Glutamate receptor channel δ2 subunit; Purkinje cell; Granule cell; Parallel fiber; Weaver mouse; In situ hybridization; Immunohistochemistry (Takayama, C. (745) 231)

Referred pain
Experimental muscle pain; Hypertonic saline; Stimulus–response function; Referred sensibility change (Graven-Nielsen, T. (744) 121)

Spinal cord lesions; Ventrolateral funiculus; Visceral nociception; Viscerosomatic convergence (Zhang, J. (771) 25)

Referred sensibility change
Experimental muscle pain; Hypertonic saline; Referred pain; Stimulus–response function (Graven-Nielsen, T. (744) 121)

Regeneration
Degeneration; Periodontal ligament; Protein gene product 9.5; Neuropeptide Y; Ruffini ending; Inferior alveolar nerve; Nerve injury (Youn, S.H. (752) 161)

Lizard, telencephalon; Reptile; Neurotoxin; Degeneration; Telencephalon; Reactive neurogenesis; [^{3}H]Thymidine (Font, E. (754) 245)

Dorsal root; X-radiation; Schwann cell; Spinal cord (Sims, T.J. (763) 141)

Merosin; Synapse; Synaptogenesis; Basement membrane; Hippocampus; Brain; Lesion; Rat; Rabbit; Pig (Tian, M. (764) 28)

6-Hydroxydopamine; Recovery; Neurotrophic factor; Dopaminergic neuron; Neurodegeneration; Direct gene transfer; Substantia nigra; Dopamine turnover (Lapchak, P.A. (777) 153)

Regional cerebral blood flow
Cholinergic system; Scopolamine; Physostigmine; Regional metabolism; Positron emission tomography; Monkey (Tsukada, H. (749) 10)

Regional cerebral glucose use
Amisulpride; D_2/D_3 dopamine receptor; Limbic system (Cudennec, A. (768) 257)

Regional heterogeneity
Spinal cord; Paw withdrawal; Tail flick; Forepaw; Hind paw (Kusmirek, J. (767) 375)

Regional metabolism
Cholinergic system; Scopolamine; Physostigmine; Regional cerebral blood flow; Positron emission tomography; Monkey (Tsukada, H. (749) 10)

Regular firing cell
Subiculum; Intracellular recording; Bursting cell; $GABA_A$; $GABA_B$; NMDA; AMPA; 5-HT (Behr, J. (773) 217)

Reinforcement
3,4-Methylenedioxymethamphetamine (MDMA); D-Amphetamine; Cocaine; Methysergide; Self-stimulation; Performance; 5-HT (Lin, H.Q. (744) 351)

Opiate; Central nervous system; Metabolism; Limbic system; Nucleus accumbens (Martin, T.J. (755) 313)

Clozapine; Dopamine receptor; Raclopride; Self-stimulation; UH232 (Nakajima, S. (760) 74)

Brain stimulation reward; Cocaine; Dizocilpine; Dopamine; Drug of abuse; MK-801; NMDA receptor; Reward; Self-stimulation (Ranaldi, R. (760) 231)

Reinnervation
Plasticity; Transplant; Synaptogenesis; Hippocampus; Dentate gyrus; Deafferentation; Sprouting (Field, P.M. (751) 352)

Inferior alveolar nerve; Nitric oxide; NADPH-diaphorase; Horseradish peroxidase; Trigeminal ganglion (Yonehara, N. (757) 31)

Reissner's fiber
Calcitonin; Brain; Subcommissural organ; Immunocytochemistry; Catfish *Clarias batrachus*; Frog *Rana tigrina*; Lizard *Caloter versicolor* (Subhedar, N. (751) 13)

Release
Acetylcholine; Cerebral cortex; Galanin; Mastoparan (Consolo, S. (756) 174)

γ-Aminobutyric acid (GABA); *N*-Methyl-D-aspartate (NMDA) receptor; Serotonin; Serotonin $5\text{-}HT_{1A}$ receptor; Dentate gyrus; Guinea pig; High performance liquid chromatography (Matsuyama, S. (761) 105)

Culture; Glutamate; L-DOPA; Neuroprotection; Neurotoxicity; Striatum (Maeda, T. (771) 159)

Release, in vivo
Morphine; Dopamine xanthine metabolism; Ascorbic acid; Uric acid; Striatum (Enrico, P. (745) 173)

REM behavior disorder
NMDA; Retrorubral nucleus; Atonia; Twitch; Narcolepsy; Periodic leg movement (Lai, Y.Y. (745) 257)

N-Methyl-D-aspartate (NMDA); Non-NMDA; Corticotropin-releasing factor; DL-2-Amino-5-phosphonovaleric acid (APV); Periodic leg movement; Nucleus magnocellularis (Lai, Y.Y. (745) 265)

Remote functional depression
Amphetamine; Cerebral glucose utilization; Cortical contusion; Traumatic brain injury (Queen, S.A. (777) 42)

REM sleep
Pontine reticular formation; Potassium current; Intracellular staining; Biocytin; Carbachol (Núñez, A. (754) 1)

Sleep; Prolactin; Pituitary; Brain temperature (Obál Jr., F. (755) 130)

Active sleep; Serotonin; $5\text{-}HT_2$ receptor; Sleep development (Frank, M.G. (768) 287)

Limbic system; Cerebral glucose metabolism (Nofzinger, E.A. (770) 192)

Renorenal reflex
Sympathetic afferent; Spinal cord; Immediate early gene; Visceral pain; Kidney (Fitch, G.K. (753) 340)

Reorganization
Plasticity; Tonotopic map; Pseudoplasticity; Dorsal cochlear nucleus (Meleca, R.J. (750) 201)

Repeated ischemia
Cerebral infarction; Disseminated selective neuronal necrosis; Threshold; Maturation phenomenon; Gerbil (Hanyu, S. (767) 154)

Reperfusion
Brain ischemia; L-Arginine; N^{ω}-Nitro-L-arginine; Hypertensive rat (Sadoshima, S. (744) 246)

Reversible ischemia; Blood flow; Cochlea; Otoacoustic emission (Mom, T. (751) 20)

Cerebral ischemia; Oxidative metabolism; Baboon; Infarction; Neuroprotection; Stroke; Positron emission tomography (Touzani, O. (767) 17)

Reperfusion injury
Focal cerebral ischemia; DNA fragmentation; TUNEL staining (Murakami, K. (751) 160)

Peripheral nerve; Ischemic neuropathy; Carbonyl formation; α-Tocopherol; Endoneurial vessels (Anderson, G.M. (772) 156)

Repetitive stimulation
c-Fos; JunB; Dorsal cochlear nucleus; Ventral cochlear nucleus; Inferior colliculus; Deprivation (Keilmann, A. (753) 291)

Reproduction
Stress; Osmotic challenge; Neuroendocrine function; Hypothalamus (Woodside, B. (752) 319)

Rat; Mediobasal hypothalamus; Neuropeptide Y; γ-Aminobutyric acid (GABA); Double-label immunocytochemistry; Ingestive behavior (Horvath, T.L. (756) 283)

Reproductive capacity
Excitatory amino acid; Kunming mouse; Excitotoxicity; Late stage of pregnancy; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Spatial learning; Obesity (Yu, T. (747) 195)

Reproductive function
Food restriction; Lactation; Neuropeptide Y (Abizaid, A. (761) 306)

Reptile
Lizard, telencephalon; Neurotoxin; Degeneration; Regeneration; Telencephalon; Reactive neurogenesis; [^{3}H]Thymidine (Font, E. (754) 245)

Prenatal; Embryo; Differentiation; Brain; Age; Sexual experience (Crews, D. (758) 169)

Serotonin; 5-HT; 5-HIAA; Dopamine; DA; Dominant; Subordinate; Lizard; *Anolis carolinensis* (Summers, T.R. (767) 272)

Reserpine
Entopeduncular nucleus; Glutamate; Aspartate; Microdialysis; 6-Hydroxydopamine (Biggs, C.S. (753) 163)

Neurotransporter; Non-exocytotic release; Noradrenaline; Pargyline (Yamazaki, T. (761) 329)

Residual calcium
Serotonin; Augmentation; Facilitation; Presynaptic enhancement (Qian, S.-M. (771) 259)

Resiniferatoxin
Analgesia; Capsaicin; C-fiber; Galanin; Galanin message associated peptide; Pain (Xu, X.-J. (752) 52)

Respiration
Mitochondrion; Neuron; Astrocyte; Neurodegeneration (Almeida, A. (764) 167)

Sympathetic nerve discharge; Spinal cord injury; Neonate (Sica, A.L. (767) 380)

Adrenergic; Electrophysiology; Imidazoline; Inward rectification; Neuromodulation; Tongue; Voltage clamp (Parkis, M.A. (769) 108)

BCECF; Central chemoreceptor; Control of breathing; Dissociated cell culture; γ-Aminobutyric acid (GABA); Glutamate (Sugama, S. (777) 95)

Brainstem; In vitro; Newborn rat; μ-Opioid receptor; δ-Opioid receptor; κ-Opioid receptor (Takita, K. (778) 233)

Brain; Breathing; Metabolism; Fetus (Koos, B.J. (778) 439)

Respiratory center
Vomiting; Pre-Bötzinger complex; Ventral respiratory group; Inspiratory neuron (Fukuda, H. (763) 30)

Respiratory control
Bötzinger complex; Nucleus retrofacialis; DL-Homocysteic acid; Expiration-related medullary neurons; Ventral respiratory group; Rabbit; Expiratory activity (Bongianni, F. (749) 1)

Postnatal development; Sneeze reflex; Trigeminal afferent; Brainstem; Transsynaptic labeling; Fos-like immunohistochemistry; Cat (Masmoudi, K. (757) 102)

Nucleus tractus solitarius; Signal transduction; Hypoxia; Protein kinase C; Ventilation (Gozal, D. (774) 246)

Respiratory neuron
Multifunctional neuron; Multiconvergent neuron; Nucleus tractus solitarius; Respiratory reflex; Sneeze; Nasal afferent; Vagal afferent (Wallois, F. (768) 71)

Respiratory quotient
Medial prefrontal cortex; Infralimbic cortex; Prelimbic cortex; Anxiety; Passive avoidance; Autonomic; Rat (Jinks, A.L. (772) 181)

Respiratory reflex
Multifunctional neuron; Multiconvergent neuron; Respiratory neuron; Nucleus tractus solitarius; Sneeze; Nasal afferent; Vagal afferent (Wallois, F. (768) 71)

Response gradient
Retinal photoreceptor; Outer segment renewal; *Xenopus laevis* (Leibovic, K.N. (750) 321)

Restraint
Microdialysis; Formalin test; Open field; Behavior; Corticosterone (Aloisi, A.M. (748) 219)

Mouse; Lateralization; Paw preference; Corticosterone (Neveu, P.J. (749) 344)

Forced swim; Plus maze; Chloride ion flux; Fear; Anxiety; Rat (Martijena, I.D. (752) 136)

Stress; Sensitization; Haloperidol; 8-OH-DPAT; 5-HT_{1A}; Vacuous chewing movement; Catalepsy; Rat (Fdez. Espejo, E. (755) 351)

Streptozotocin diabetes; Serotonin release; Microdialysis; Serotonin metabolism; Corticosterone; Elevated plus maze; Anxiety; Locomotor activity (Thorré, K. (772) 209)

Restraint stress
c-*jun*; In situ hybridization; Midazolam; NMDA; Serotonin; Hippocampus (De Oliveira, C.L. (753) 202)

β-Endorphin; Hypothalamic–pituitary–adrenal axis; Epinephrine; Norepinephrine; Opioid; Naloxone (Yamauchi, N. (777) 140)

Restraint water-immersion stress
Heat shock protein (HSP)70; Cerebral cortex; Stomach; Rat; Messenger RNA; Northern blotting (Fukudo, S. (757) 146)

Retention
Hippocampus; Subiculum; Operant learning; Electrolytic lesion; Ibotenic acid lesion; Acquisition (Govindaiah, (745) 121)

Reticular formation
Fictive locomotion; Electrical stimulation; NMDA; Central pattern generator; Lamprey (Guertin, P. (753) 328)

Locomotion; Anterior dorsal tegmentum; Midbrain; GABA; Hypothalamus (Sinnamon, H.M. (766) 271)

Neurofilament; Immunocytochemistry; Brainstem; Cat; Aging (Zhang, J.-H. (769) 196)

Reticulo-spinal pathway
Startle; Attention; Experimental set; Reaction time; Habituation; Electromyography (Valls-Solé, J. (751) 155)

Retina
Glutamate uptake; GLAST; Pigment epithelium; Glia; Müller cell; Astrocyte; Immunocytochemistry (Lehre, K.P. (744) 129)

Mitochondria; Differential gene expression; Fovea (Bernstein, S.L. (744) 143)

Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Betaxolol; Neuroprotective agent; Ischemia (Osborne, N.N. (751) 113)

Connexin; Gap junction; Electrical synapse; Immunoblot; Immunohistochemistry; Cx43; Müller cell (Giblin, L.J. (755) 146)

Single-channel current; Mutagenesis; Patch clamp; Gene expression (Lu, L. (756) 1)

γ-Aminobutyric acid (GABA); $GABA_A$ receptor; OFF pathway; Amacrine cell; Bipolar cell; Neurotransmitter; Carp (Zhang, D.-Q. (759) 160)

Nitric oxide synthase; Development; Cell death; Optic tract lesion; Rat (Patel, J.I. (761) 156)

Protein kinase C; Bipolar cell; Goldfish; Image analysis; Dopamine (Vaquero, C.F. (773) 208)

Retina cell damage
Ischemia; Glutamate receptor; Amino acid release; Energy level (Ferreira, I.L. (768) 157)

Retina culture
Melatonin; Ischaemia; Kainate; 5-HT-accumulating neuron; GABAergic neuron (Cazevieille, C. (755) 91)

Retinal ganglion cell
Alzheimer disease; Amyloid β protein; Amyloid precursor protein; Amyloid-associated proteins; Chloroquine retinopathy (Yoshida, T. (764) 283)

Retinohypothalamic tract; Hypothalamus; Lateral hypothalamic area; FluoroGold; Suprachiasmatic nucleus; Circadian rhythm (Leak, R.K. (770) 105)

Retinal glia
Bromodeoxyuridine; C6 glioma cell; Calceinam; Dystrophic retina; Ethidium homodimer; Gliastatin 2; Lactate dehydrogenase; Microglial cell; Müller cell (Rosales, A.A. (748) 195)

Retinal neuron
Excitotoxicity; Growth factor; Ganglioside; Excitatory amino acid (Heidinger, V. (767) 279)

Retinal photoreceptor
Outer segment renewal; Response gradient; *Xenopus laevis* (Leibovic, K.N. (750) 321)

Retinal topography
Visual cortex ablation; Neonatal lesion; Cell loss (Théoret, H. (775) 203)

Retinohypothalamic tract
Retinal ganglion cell; Hypothalamus; Lateral hypothalamic area; FluoroGold; Suprachiasmatic nucleus; Circadian rhythm (Leak, R.K. (770) 105)

Retinoic acid
LRP; α_2MR; Neuroblastoma; Differentiation; α_2Macroglobulin; Phorbol ester; Interferonγ (Fabrizi, C. (776) 154)

Norepinephrine transporter; Tyrosine hydroxylase; Leukemia inhibitory factor; Ciliary neurotrophic factor; Superior cervical ganglia; PC12 cell (Matsuoka, I. (776) 181)

Retinorecipient structure
[γ-^{35}S]GTP binding; G protein coupled receptor; Tissue section (Kurkinen, K.M.A. (769) 21)

Retrieval
Ventral hippocampus; Passive avoidance; Acquisition; Consolidation; Tetrodotoxin functional inactivation (Ambrogi Lorenzini, C.G. (768) 242)

Retrograde axonal tracing
Choline acetyltransferase; NADPH diaphorase; Nitric oxide synthase; True blue; Sphenopalatine ganglion; Cerebral blood vessel (Kimura, T. (773) 117)

Retrograde double labeling
Callosal neuron; Callosotomy; Fast Blue (FB); Diamidino Yellow · 2HCl (DY · 2HCl); Rat (Orihara, Y.I. (778) 393)

Retrograde labeling
Parabrachial nucleus; Kölliker-Fuse nucleus; Thalamus; Spinal cord; Axon collateral; Pain; Rat (Li, J.-L. (745) 321)

Retrograde messenger
Nitric oxide; Visual cortex; Glutamate receptor; NMDA receptor; Axo-axonic interaction; LTP; Excitotoxicity; Immuno-electron microscopy (Aoki, C. (750) 25)

Retrograde tracer
Choline acetyltransferase; Fluoro-Red; Forebrain; Song control nucleus; Zebra finch (Li, R. (763) 239)

Lateral hypothalamic area; Zona incerta; Periaqueductal gray matter; True blue; Melanin-concentrating hormone; Neuropeptide EI (Elias, C.F. (755) 255)

Retrograde tracing
Uterus; Sympathetic chain; Superior mesenteric ganglion; Inferior mesenteric ganglion; Rat (Vera, P.L. (747) 140)

Nucleus tractus solitarius; Caudal ventrolateral medulla; Substance P; Immunohistochemistry; Electron microscopy; Rat (Kawano, H. (754) 315)

Sphenopalatine ganglion; Brainstem; Parasympathetic pathway; Nitric oxide synthase; Choline acetyltransferase (Zhu, B.-S. (769) 168)

Diencephalon; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Neuroendocrine control; Teleostei; Gymnotiformes (Zupanc, G.K.H. (774) 106)

Dorsal thalamus; Preoptic area; Anterograde tracing; Biocytin; Teleostei; Gymnotiformes (Zupanc, G.K.H. (776) 117)

Retrograde transport
Phosphoinositide-3 kinase; Neuronal survival; Nerve growth factor; Vesicular trafficking (Bartlett, S.E. (761) 257)

Retrohippocampal area
Subiculum; Hippocampus; Burst (Stewart, M. (769) 71)

Retrorubral nucleus
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Retrosplenial cortex
N-Methyl-D-aspartate receptor; Glycine antagonist; ACEA 1021; Neurotoxicity; Neuropathology; Cingulate cortex (Hawkinson, J.E. (744) 227)

Neuronal degeneration; MK-801; NMDA; Hippocampus; Pyriform cortex; Entorhinal cortex (Horváth, Z.C. (753) 181)

Phencyclidine; NMDA receptor antagonist; Neurotoxicity; Cyclooxygenase-2; Heat shock protein (Hashimoto, K. (762) 259)

Retrosplenial granular cortex
de Olmos silver staining; Haemotoxylin and eosin; Heat shock protein immunocytochemistry; Neurodegeneration; Neurotoxicity; NMDA antagonists; Phencyclidine (Corso, T.D. (752) 1)

Reversal
Frontal cortex; Medial prefrontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; Learning; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Conditioned emotional response; Two-way active avoidance; Emotional processes; Rat (Joel, D. (765) 37)

Reverse transcriptase–polymerase chain reaction
Glutamic acid decarboxylase; Neuron; γ-Aminobutyric acid; Alternative splicing (Yoshioka, A. (767) 333)

Reverse transcription-polymerase chain reaction (RT-PCR)
Inorganic phosphate transporter; NaP_i-2; Immunohistochemistry; Nonpyramidal neuron; Rat brain (Hisano, S. (772) 149)

Reversible ischemia
Reperfusion; Blood flow; Cochlea; Otoacoustic emission (Mom, T. (751) 20)

Reward
δ Opioid receptor; Conditioned place preference; Dopamine turnover; Mesolimbic dopamine system (Suzuki, T. (744) 327)

Self-stimulation; Cocaine; Adrenalectomy; Corticosterone (Abrahamsen, G.C. (755) 156)

Nucleus accumbens; Psychomotor stimulant; Cocaine; Single neuron recording; Self-administration; Appetitive behavior; Incentive stimulus (Peoples, L.L. (757) 280)

Brain stimulation reward; Cocaine; Dizocilpine; Dopamine; Drug of abuse; MK-801; NMDA receptor; Reinforcement; Self-stimulation (Ranaldi, R. (760) 231)

Reward-related learning
Cholecystokinin; Conditioned activity; Locomotion; Devazepide; L-365,260; PD-140548; Cocaine; Nucleus accumbens (Josselyn, S.A. (763) 93)

Rhesus monkey
Cholecystokinin; Nucleus of the solitary tract; Area postrema; Ventrolateral medulla; Vagus nerve; Catecholamine; Old-world primate; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

Rhodamine 123
Cerebellar granule cell, dissociated; Mitochondrial membrane potential; *N*-Methyl-D-aspartate; Arachidonic acid; Flow cytometry (Camins, A. (777) 69)

Rhythm
Development; Critical period; Prenatal stress; Postnatal stress; Corticosterone (Koehl, M. (759) 317)

Circadian; Clock; Melatonin; Agonist; Mice; Syrian hamster (Van Reeth, O. (762) 185)

RIA
Morphine; L-Arginine; N^G-nitro-L-arginine; Antinociception; Nitric oxide synthase; Brain region; Serum morphine concentration (Bhargava, H.N. (749) 351)

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Ribosomal aggregation
Ca^{2+}-ATPase; Calcium homeostasis; Cell culture; Electron microscopy; Endoplasmic reticulum; Protein synthesis (Doutheil, J. (775) 43)

Righting reflex
Ethanol; Protein kinase C; Calphostin C; Phorbol 12,13-dibutyrate; Diabetes (Ohsawa, M. (764) 244)

Riluzole
Brain injury; Head trauma; Fluid percussion; Neurological deficit; Neuroprotection (Wahl, F. (756) 247)

G-protein; *N*-ethylmaleimide; GDP-β-S; Protein kinase A; High voltage-activated calcium channel; Pertussis toxin; Neuroprotective drug (Huang, C.-S. (762) 235)

Rimcazole
Phencyclidine; Immediate-early gene; c-*fos*; 1,3-Di(2-tolyl)guanidine; σ Receptor; Pentazocine; Rat (Sharp, J.W. (758) 51)

α_2M-R/LRP
Alzheimer's disease; α_2-Macroglobulin; Aβ; Senile plaque; Membrane alteration; Interleukin 6 (Thal, D.R. (777) 223)

RNA
Cell culture; Alzheimer's disease; Amyotrophic lateral sclerosis; Parkinsonism-dementia; Guam; Axonal transport; Neurotoxin (Wakayama, I. (748) 237)

Circadian entrainment; Cone opsin; Immunocytochemistry; *Mesocricetus auratus*; Phase shift assay; Syrian golden hamster (Von Schantz, M. (770) 131)

hsp70 mRNA
l-Deprenyl; Stroke; Cerebral ischemia; Neurodegeneration; Neuronal rescue (Lahtinen, H. (757) 260)

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Erythropoietin; Insulin; Insulin-like growth factor-I; Insulin-like growth factor-II astrocyte; Oxygen (Masuda, S. (746) 63)

Polyarthritis; Met-enkephalin; Dynorphin A 1–8; Rat dorsal root ganglia; In vivo spinal release (Pohl, M. (749) 18)

Brain-derived neurotrophic factor; Nerve growth factor; Dorsal root ganglion; Peripheral inflammation; Pain; In situ hybridization (Cho, H.-J. (749) 358)

Cocaine; Dopamine transporter; Sensitization; In situ hybridization histochemistry; Autoradiography; Rat (Letchworth, S.R. (750) 214)

Brain damage; Pathogenesis; Cerebral cortex; Cirrhosis of the liver; Human; Quantitative RT/PCR (Lewohl, J.M. (751) 102)

Dopamine; Cellular expression; Anti-peptide antisera; Forebrain (Ariano, M.A. (752) 26)

Cytokine; CNS; Spinal cord injury; Contusion; ELISA (Wang, C.X. (759) 190)

Hepatocyte growth factor; Hepatocyte growth factor activator; Astrocyte; Alzheimer disease (Yamada, T. (762) 251)

L-Arginine; L-Nitroarginine; Hepatic encephalopathy; Portacaval shunt; Nitric oxide synthase; Western blotting; RT-PCR (Rao, V.L.R. (765) 169)

Rat; Astrocyte; Ethanol; Metallothionein; In vitro; Hypotonic (Aschner, M. (770) 289)

Proopiomelanocortin; Pituitary; 5-Hydroxytryptamine; 5,7-Dihydroxytryptamine (García-García, L. (772) 115)

Thyroid hormone receptor; Antibody; Rat pituitary (Li, M. (773) 125)

Vasoactive intestinal polypeptide; Muscarinic receptor; Neuroblastoma cell; Gene expression; Peptide processing (Kristensen, B. (775) 99)

Enkephalin; Sexual behavior; Ventromedial hypothalamus; Phosphorothioate oligodeoxynucleotide; Antisense (Nicot, A. (777) 60)

Ro15-4513
Chronic intermittent ethanol (CIE); Intracellular free calcium; $^{36}Cl^-$ influx; MK-801; Kindling (Hu, X.-J. (767) 228)

Robustus archistriatalis
Dihydrotestosterone; 5α-Reductase; Birdsong; Aza-steroid; Aromatase (Grisham, W. (750) 122)

Rod
Glutamate; Glycine; Horizontal cell; Calcium current; Xenopus (Akopian, A. (762) 121)

Rose bengal
Stroke; Focal cerebral ischemia; Photothrombosis; Krypton laser; Excitotoxicity (Yao, H. (753) 80)

Rostral caudal ventrolateral medulla
Sympathetic nerve discharge; Medullary neuron; Correlation; Coherence; 8- to 13-Hz rhythm; Rostral para-ambiguual field (Dempesy, C.W. (768) 102)

Rostral para-ambiguual field
Sympathetic nerve discharge; Medullary neuron; Correlation; Coherence; 8- to 13-Hz rhythm; Rostral caudal ventrolateral medulla (Dempesy, C.W. (768) 102)

Rostral ventrolateral medulla
Cardiopulmonary vagal reflex; Blood pressure; Sympathetic nerve activity; Caudal ventrolateral medulla; Lateral tegmental field; Raphe nuclei; Nucleus tractus solitarii (Vayssettes-Courchay, C. (744) 272)

I_1-imidazoline receptor; SHR rat; PC12 cell; Diacylglycerol; Phosphocholine; PC-PLC; D609; Moxonidine (Separovic, D. (749) 335)

M2 muscarinic receptor; Spontaneously hypertensive rat; Blood pressure; Polymerase chain reaction; Autoradiography (Gattu, M. (756) 125)

Atipamezole; c-Fos; Locus coeruleus; Withdrawal; α_2-Adrenergic receptor; Catecholamine (Stornetta, R.L. (764) 81)

Rotational behavior
Parkinson's disease; 6-Hydroxydopamine lesion; Transplantation; Behavioral test (Rozas, G. (749) 188)

Rotenone
Oxidative stress; Parkinson's disease; Antioxidant; MK-801; CNQX (Nakao, N. (777) 202)

***R*(+)-SCH-23390**
Self-mutilating behavior; *d*-Amphetamine; (±)-Sulpiride; Haloperidol; Dopamine; Rat (Lara-Lemus, A. (770) 60)

RT-PCR
L-Arginine; L-Nitroarginine; Hepatic encephalopathy; Portacaval shunt; Nitric oxide synthase; Western blotting; mRNA (Rao, V.L.R. (765) 169)

Glucose deprivation; Kunitz-type protease inhibitor domain; Amyloid mRNA (Shi, J. (772) 247)

Vestibular; Efferent; Nicotinic acetylcholine receptor; Scarpa's ganglion; Hair cell; Crista; Macula (Anderson, A.D. (778) 409)

Rubidium efflux
Learning and memory; Morris water maze; Passive avoidance; Spontaneously hypertensive rat; Nicotinic acetylcholine receptor; Vesicular acetylcholine transporter; Autoradiography (Gattu, M. (771) 89)

Spontaneously hypertensive rat; Nicotinic receptor; Water maze; Passive avoidance; Autoradiography; Learning and memory (Gattu, M. (771) 104)

Ruffini ending
Degeneration; Regeneration; Periodontal ligament; Protein gene product 9.5; Neuropeptide Y; Inferior alveolar nerve; Nerve injury (Youn, S.H. (752) 161)

Calretinin; Mechanoreceptor; Periodontal ligament; Rat (Ochi, K. (769) 183)

Ruffini-like ending
Calretinin; Immunohistochemistry; Incisor; Parvalbumin; Periodontal ligament; Trigeminal ganglion (Ichikawa, H. (770) 294)

RZRβ mRNA
In situ hybridization; Melatonin; Melatonin receptor; Pars tuberalis; Sensory system (Park, H.T. (747) 332)

RZR nuclear receptor
Melatonin; PC12 cell; Cell growth; Cell death (Roth, J.A. (768) 63)

S

S100
Parvalbumin; Calbindin D-28k; Calretinin; Trigeminal ganglion; Dorsal root ganglion (Ichikawa, H. (748) 253)

Calbindin D-28k; Jugular ganglion; Immunohistochemistry; Nodose ganglion; Parvalbumin; Petrosal ganglion; Vagal afferent neuron (Ichikawa, H. (768) 349)

S-182
Presenilin-1; Monoclonal antibody; Immunolabeling; Alzheimer disease; Down syndrome; Rat; Mice (Kim, K.S. (757) 159)

Saccade
Antisaccade; Voluntary saccade; Express saccade; Fixation; Attention; Frontal lobe (Fischer, B. (754) 285)

Saccadic eye movement
Event-related brain potential; Visual memory; Medial septum; Hippocampus; Medial temporal lobe; Theta rhythm; Memory (Sobotka, S. (756) 168)

Sacral parasympathetic
Central sensitization; Fos; Lamina X; Morphine tolerance; Rat; Withdrawal (Rohde, D.S. (745) 83)

Salt appetite
(Na,K)-ATPase; Aldosterone; In situ hybridization (Grillo, C. (767) 120)

S-antigen
Calcium oscillation; Rainbow trout; Pinealocyte; Norepinephrine; L-type calcium channel (Kroeber, S. (744) 68)

Satiety
Cholecystokinin; Hepatic branch; Rat; Vagus nerve; Visceral afferent (Cox, J.E. (776) 189)

Saturation kinetics
Blood–brain barrier; Difference spectroscopy; Hyperphenylalaninemia; Michaelis–Menten kinetics; Proton magnetic resonance spectroscopy; Phenylalanine transport; Phenylketonuria (Möller, H.E. (778) 329)

S-100β
Serotonin; Synaptogenesis; Learning/memory; Parachlorophenylalanine; Schizophrenia; Hippocampus (Mazer, C. (760) 68)

Brain injury; γ-Irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; GFAP (Janeczko, K. (770) 237)

MAP-2; Neuronal cytoskeleton; Alzheimer's disease; Down's syndrome; Hippocampus; Dendrite; Neurofibrillary tangle (Whitaker-Azmitia, P.M. (776) 51)

Scarpa's ganglion
Vestibular; Efferent; Nicotinic acetylcholine receptor; RT-PCR; Hair cell; Crista; Macula (Anderson, A.D. (778) 409)

Scavenger receptor
LDL; Oxidized LDL; CNS neuron; Oxidation response; Neurotoxicity; Apoptosis (Sugawa, M. (761) 165)

Scent marking
Aggression; Medial preoptic area; Anterior hypothalamus; Stress (Bamshad, M. (744) 15)

SCH 23390
Rapid eye movement sleep; Sulpiride; Nigrostriatal lesion; Dopamine receptor (Durán-Vázquez, A. (744) 171)

Single-unit recording; Dopamine; Cocaine; Apomorphine; Substantia nigra; Ventral tegmental area (Lee, T.H. (744) 293)

Stereotyped behavior; Dopamine agonists; Immunoblot; Striatal c-*fos* (Muñoz, J.E. (774) 51)

Schizophrenia
Neural cell adhesion molecule; L1 antigen; Contactin; Cell recognition molecule; Cerebrospinal fluid (Poltorak, M. (751) 152)

Gene expression; Glutamate receptor; Human brain; Hybridization, in situ; Kainic acid receptor; Messenger RNA (Porter, R.H.P. (751) 217)

Serotonin; Synaptogenesis; S-100β; Learning/memory; Parachlorophenylalanine; Hippocampus (Mazer, C. (760) 68)

Startle; Prepulse inhibition; Serotonin 2A; Sensorimotor gating; Hallucinogens (Sipes, T.E. (761) 97)

Partial agonist; Antipsychotic; Neuroleptic; Tardive dyskinesia; *N*-Methyl-D-aspartate; Glutamate (Lidsky, T.I. (764) 46)

MAP2; Phosphorylation; Densitometry; Interneuronal distance; Neuronal orientation (Cotter, D. (765) 238)

6-Hydroxydopamine; Immunocytochemistry; Medial prefrontal cortex; Neostriatum; Nucleus accumbens core and shell; Stress; Tyrosine hydroxylase (King, D. (767) 192)

Borna disease virus; p24; Nested RT-PCR; Brain; Olfactory bulb; Mood disorder (Haga, S. (770) 307)

β-Endorphin; Mediobasal hypothalamus; Biological rhythm; Pro-opiomelanocortin neuron; Depression (Jamali, A.K. (771) 45)

Amino acid, excitatory; Transporter; Neurodegeneration; Immunocytochemistry (Shashidharan, P. (773) 139)

Nitric oxide; Nicotinic receptor; Hippocampus; Dentate gyrus (Adams, C.E. (776) 111)

Schwann cell
Dorsal root; X-radiation; Regeneration; Spinal cord (Sims, T.J. (763) 141)

Nerve regeneration; Peripheral nerve; Nerve graft; Silicone; Implant; Matrix; Immunohistochemistry (Zhao, Q. (769) 125)

Leukemia inhibitory factor; Transforming growth factor-β1; Neurotrophic factor; DRG neuron; Sciatic nerve; Nerve regeneration (Matsuoka, I. (776) 170)

Schwann cell migration
Diabetic neuropathy; Peripheral nerve regeneration; Silicone chamber; Axon; Streptozocin (Tantuwaya, V.S. (759) 58)

Sciatic axotomy
Neuroglia; Astrocyte; Aging; Glial fibrillary acidic protein; Gene expression (Kane, C.J.M. (759) 163)

Sciatic nerve
Hyperalgesia; Neuropathic pain; Pain; Rat; Spinalization (Kauppila, T. (770) 310)

Fetal spinal cord; Transplantation; Muscle reinnervation; Spinal neuron; Axonal growth; Choline acetyltransferase; Cholera toxin B (Katsuki, M. (771) 31)

Optic nerve; Spinal cord; Immunohistochemistry; Calcium; Myelin; Node of Ranvier (Steffensen, I. (776) 1)

Leukemia inhibitory factor; Transforming growth factor-β1; Schwann cell; Neurotrophic factor; DRG neuron; Nerve regeneration (Matsuoka, I. (776) 170)

SCN
Circadian; NMDA; Glutamate; Phase shift; Hamster (Mintz, E.M. (758) 245)

Scopolamine
Dynorphin; Substance P; Enkephalin; Oxotremorine; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (748) 62)

Cholinergic system; Physostigmine; Regional cerebral blood flow; Regional metabolism; Positron emission tomography; Monkey (Tsukada, H. (749) 10)

Hippocampus; Working memory; 5-Hydroxytryptamine$_3$ (5-HT$_3$) receptor; Y-25130; Serotonin; Acetylcholine; NMDA receptor (Ohno, M. (762) 211)

N-Methyl-D-aspartate (NMDA) receptor; Neurotoxicity; Memantine; Phencyclidine; Heat shock protein (Tomitaka, S.-i. (763) 255)

CGP36742; GABA$_B$ receptor antagonist; Morris water maze task; Baclofen; Motor incoordination (Nakagawa, Y. (766) 101)

WAY 100635; Serotonin 5-HT$_{1A}$ receptor; 7-Chloro-kynurenic acid; Glycine site; NMDA receptor; Hippocampus; Spatial learning; Rat (Carli, M. (774) 167)

Scrapie
Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Prion; Cytokine; Prostaglandin; Lipocortin; Neurodegeneration; Glia; Mouse (Williams, A. (754) 171)

Scrotal thermal stimulation
VMH warm and cold neurons; Thermoresponsiveness (Li, Q. (749) 29)

VMH warm and cold responsive neuron; Thermoresponsiveness; Cold acclimatization; Neuronal adaptation (Li, Q. (770) 18)

Scrotum nerve
L_6–S_1 trunk; Lumbosacral trunk; Motor branch; Ejaculation (Pacheco, P. (763) 202)

SDS-PAGE
hNF-H; cdk5; Phosphorylation; IPTG (Pant, A.C. (765) 259)

Seasonality
Photoperiod; Testosterone; Plasticity; Songbird; Vocalization (Bernard, D.J. (760) 163)

Secondary damage
Spinal cord injury; Interleukin-1β; Interleukin-6; Tumor necrosis factor α; Macrophage invasion; Central nervous system (Klusman, I. (762) 173)

Second messenger
Protein kinase C; Cerebral ischemia; Middle cerebral artery occlusion; Rat; Autoradiography (Tohyama, Y. (750) 155)

Hyperalgesia; Pain; Protein kinase (Sluka, K.A. (772) 82)

***β*-Secretase**
Alzheimer's disease; Cathepsin D; Acidic protease; Recombinant βAPP; Swedish mutation; FCA18 antibody (Chevallier, N. (750) 11)

Secretion
Lipocortin; Annexin; Astrocytoma cell; Induction: Glucocorticoid (Mizuno, H. (746) 265)

Sedimentation
Nerve growth factor; Rat brain; Enzyme-linked immunosorbent assay; Gel filtration; High molecular weight molecule; Association (Hoener, M.C. (772) 1)

Seizure
Astressin; Corticotropin-releasing factor (CRF) antagonist; Neuron loss; Hippocampus (Maecker, H. (744) 166)

NMDA receptor; Antisense oligodeoxynucleotide; Elevated plus maze; Anxiety (Zapata, A. (745) 114)

Cholecystokinin octapeptide CCK-8; Acupuncture; Opioid; Neuropeptide (Zhang, L.-X. (745) 158)

GABAergic inhibition; Epileptogenesis; El mouse; Dentate gyrus; Hippocampus; Disinhibition; Growth (Ono, T. (745) 165)

Furosemide; Mannitol; Kainic acid; Osmolality; Diuretics (Stringer, J.L. (745) 328)

Thyrotropin-releasing hormone (TRH); Soman; Metabolism; Acetylcholine; Excitotoxicity; Organophosphorus (Kubek, M.J. (747) 328)

Epilepsy; Serotonin; Receptor subtype; Kindling; 8-OH-DPAT; DOI; Ketanserin (Wada, Y. (747) 338)

Kindling; 2-Chloroadenosine; Caffeine; Amygdala; Hippocampus (Pourgholami, M.H. (751) 259)

Nitric oxide; N^{ω}-Nitro-L-arginine methylester; Pentylenetetrazole; Strychnine; Mouse (Kaputlu, İ. (753) 98)

Excitotoxicity; Kainate; Deep prepiriform cortex; Hippocampus (Kawaguchi, K. (753) 152)

Neurotoxicity; Autoradiography; Fatty acid; Palmitic acid; Arachidonic acid; 2-Deoxyglucose; Brain metabolism; Gliosis; Glial fibrillary acidic protein (Appel, N.M. (754) 55)

Electrical kindling; Epileptogenesis; Presynaptic glutamate receptor; L-AP4; MPPG; In vitro $^{45}Ca^{2+}$ uptake; In vitro [^{3}H]D-aspartate release (Abdul-Ghani, A.-S. (755) 202)

Adeno-associated virus; Gene therapy; Inferior colliculus; γ-Aminobutyric acid (GABA); Antisense (Xiao, X. (756) 76)

Cocaine; Lidocaine; Local anesthetic; Dextromethorphan; 6,7-Dinitroquinoxaline-2,3-dione; NMDA (Barat, S.A. (756) 179)

Pilocarpine; Vasopressin; Vasopressin V_2-receptor (Croiset, G. (759) 18)

Methamphetamine; Indusium griseum; Hippocampal remnant; Neurodegeneration; Fluoro-Jade; Glutamate; Catecholamine (Schmued, L.C. (759) 135)

Kindling; Serotonin; 5-HT_3 receptor; 1-(*m*-Chlorophenyl)-biguanide; Epilepsy; Amygdala; Rat (Wada, Y. (759) 313)

Dentate gyrus; Hippocampus; Disinhibition (Wang, H. (760) 266)

Inferior colliculus; Genetically epilepsy-prone rats; Audiogenic seizures; Neuronal network (Chakravarty, D.N. (761) 263)

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Cyclooxygenase; Inferior colliculus; Immediate-early gene (McCown, T.J. (767) 370)

Transcription factor; Fra; Jun-D; Hippocampus; Kainic acid; AP-1 (Feng, Z. (770) 53)

Cocaine; Local anesthetic toxicity; γ-Aminobutyric acid receptor/channel; Whole cell $GABA_A$ current; Patch clamp; Hippocampal neuron (Ye, J.H. (770) 169)

Immunocytochemistry; Genetically epilepsy prone rat; Epilepsy; Glutamate receptor (Gaza, W.C. (774) 175)

Amygdala; Kindling; 2-Chloroadenosine; Caffeine; Adenosine A_1 receptor (Pourgholami, M.H. (775) 37)

Hippocampus; CA1; Temperature; Potentiation; Hypoxia (Watson, P.L. (775) 134)

Dentate gyrus; Hippocampus; Low-frequency stimulation; Paired-pulse depression; Kindling; Perforant path (Emori, K. (776) 250)

Temporal lobe epilepsy; Fimbria/fornix; Perforant path; Hippocampus; Synaptic reorganization (Mohapel, P. (778) 186)

Apamin; Brain damage; Ca^{2+}-activated K^+ channel; Cerebellum; Infusion (Mourre, C. (778) 405)

Seizure activity
Seizure pattern; Ictal behavior; Kindling; Cortical stimulation (Della Paschoa, O.E. (770) 221)

Seizure model
Corticotropin releasing factor; Corticotropin releasing factor receptor; Selective antagonist; Electroencephalogram; Limbic epilepsy (Baram, T.Z. (770) 89)

Seizure pattern
Seizure activity; Ictal behavior; Kindling; Cortical stimulation (Della Paschoa, O.E. (770) 221)

Seizure repetition
Audiogenic seizure; 2-[^{14}C]Deoxyglucose; Cerebral energy metabolism
(Pereira de Vasconcelos, A. (762) 114)

Selected line
Ethanol; c-Fos; Genetics; Locus coeruleus; Nucleus accumbens (Thiele, T.E. (756) 278)

Selective antagonist
Corticotropin releasing factor; Corticotropin releasing factor receptor; Seizure model; Electroencephalogram; Limbic epilepsy (Baram, T.Z. (770) 89)

Selective neuronal vulnerability
Hippocampal slice; Neurotoxicity; Microphysiometry; Metabolism (Ajilore, O.A. (752) 99)

Selective vulnerability
Ischemia; Mitochondria; Cytochrome *c* oxidase; Pyruvate dehydrogenase complex; Neuronal death (Zaidan, E. (772) 23)

Self-administration
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Self-excitation
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Self-mutilating behavior
d-Amphetamine; *R*(+)-SCH-23390; (±)-Sulpiride; Haloperidol; Dopamine; Rat (Lara-Lemus, A. (770) 60)

Self-stimulation
3,4-Methylenedioxymethamphetamine (MDMA); D-Amphetamine; Cocaine; Methysergide; Performance; Reinforcement; 5-HT (Lin, H.Q. (744) 351)

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Clozapine; Dopamine receptor; Raclopride; Reinforcement; UH232 (Nakajima, S. (760) 74)

Brain stimulation reward; Cocaine; Dizocilpine; Dopamine; Drug of abuse; MK-801; NMDA receptor; Reinforcement; Reward (Ranaldi, R. (760) 231)

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Fos; Vestibular; Otolith; Inferior olive (Marshburn, T.H. (761) 51)

Semi-dehydroascorbate radical
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Apolipoprotein E; Amyloid β-protein; Laser scan microscopy; Alzheimer's disease (Nishiyama, E. (750) 20)

Macaca mulatta; Prefrontal cortex; β-Amyloid; Apolipoprotein E; Glia; Immunofluorescence; Carbocyanine double labelling (Härtig, W. (751) 315)

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Sensitization
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Amphetamine; Fos; Lateral habenula (Hamamura, T. (767) 140)

Cocaine; *N*-Methyl-D-aspartate; Ventral tegmental area (Schenk, S. (769) 225)

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Startle; Prepulse inhibition; Serotonin 2A; Schizophrenia; Hallucinogens (Sipes, T.E. (761) 97)

Electrolytic lesion; Nucleus accumbens; Core; Shell; Startle reflex (Kodsi, M.H. (773) 45)

Sensorimotor learning
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Sensory
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Sensory afferents
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Spinal cord injury; Sympathetic nerve activity; Rat; c-*fos* gene (Ruggiero, D.A. (763) 21)

Sensory feedback
Magnetoencephalography; Movement-evoked field; Somatosensory cortex; Motor control (Cheyne, D. (771) 196)

Hypoglossal nerve; Afferent; Tongue; Anuran (Anderson, C.W. (771) 285)

Sensory ganglion
Astroglia; Microglia; Motoneuron; Nerve injury; Spinal cord; GFAP; OX-42 (Molander, C. (747) 122)

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Sensory neuron
Mesencephalic trigeminal neuron; γ-Aminobutyric acid (GABA); $GABA_A$ receptor; In situ hybridization; GABA uptake (Hayar, A. (753) 120)

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Lymnaea stagnalis; Osphradium; γ-Aminobutyric acid (GABA); FMRFamide; Serotonin; Electrophysiology; Transmitter interaction (Nezlin, L. (772) 217)

Hybridoma; Dorsal root ganglia; Nerve growth factor; Neurite regeneration; Phosphorylation; Neurofilament (Hikawa, N. (774) 225)

Sensory system
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Sensory test
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Sensory zone
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Sepia officinalis
Aging; Choline acetyltransferase; Acetylcholinesterase; Cholinergic enzymatic assay; Cephalopod; Central nervous system (Bellanger, C. (762) 219)

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Septohippocampal complex
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Septohippocampal neuron
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Septohippocampal system
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Septum
Choline acetyltransferase; Parvalbumin; GABA; Diagonal band of Broca; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (753) 141)

D-Serine
D-Amino acid oxidase; NMDA-glycine site; Nucleus of the solitary tract; Ventrolateral medulla; Intramediolateral cell column; Blood pressure regulation (Kapoor, R. (771) 351)

Serine protease
Neuropsin; Learning impairment; Avoidance; Hippocampus; Oxidative stress; Diethyldithiocarbamate (Akita, H. (769) 86)

Serotonergic
Opioid; Dorsal raphe; Periaqueductal gray; GABA; Interneuron; Intracellular, brain slice (Jolas, T. (755) 229)

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Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Glucose; Hypothalamus; Substantia nigra; Locus coeruleus; Neurotoxin; Dopamine; Norepinephrine; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Monoamine oxidase; Clorgyline; Deprenyl; Tyramine; β-Phenylethylamine; Locus coeruleus; Dorsal raphe nucleus (Arai, R. (745) 352)

$5\text{-}HT_6$ receptor; Anti-peptide antibodies; Immunoautoradiography; Immunocytochemistry; Rat brain (Gérard, C. (746) 207)

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c-*jun*; In situ hybridization; Restraint stress; Midazolam; NMDA; Hippocampus (De Oliveira, C.L. (753) 202)

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Depression; Dorsal raphe nucleus; Neonatal clomipramine; Electrophysiology; Rat (Kinney, G.G. (756) 68)

Kindling; $5\text{-}HT_3$ receptor; 1-(*m*-Chlorophenyl)-biguanide; Epilepsy; Seizure; Amygdala; Rat (Wada, Y. (759) 313)

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γ-Aminobutyric acid (GABA); *N*-Methyl-D-aspartate (NMDA) receptor; Serotonin $5\text{-}HT_{1A}$ receptor; Dentate gyrus; Release; Guinea pig; High performance liquid chromatography (Matsuyama, S. (761) 105)

Supraependymal neuronal complex; Intraventricular nerves; Pituitary gland (Cloft, H.J. (761) 210)

Interleukin-1; Microdialysis; Dopamine; Norepinephrine; Rat (Merali, Z. (761) 225)

Hippocampus; Working memory; 5-Hydroxytryptamine$_3$ (5-HT$_3$) receptor; Y-25130; Acetylcholine; Scopolamine; NMDA receptor (Ohno, M. (762) 211)

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MK-801 (dizocilpine); Nucleus accumbens; Dopamine; Norepinephrine; Microdialysis (Yan, Q.-S. (765) 149)

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Quipazine; Suprachiasmatic nucleus; Circadian rhythm; Fos (Moyer, R.W. (765) 337)

Methamphetamine; Sensitization; Neurotoxicity; Dopamine (Abekawa, T. (767) 34)

5-HT; 5-HIAA; Dopamine; DA; Dominant; Subordinate; Lizard; Reptile; *Anolis carolinensis* (Summers, T.R. (767) 272)

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Active sleep; 5-HT$_2$ receptor; Sleep development; REM sleep (Frank, M.G. (768) 287)

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Augmentation; Facilitation; Residual calcium; Presynaptic enhancement (Qian, S.-M. (771) 259)

Substantia nigra; Microdialysis (Thorré, K. (772) 29)

Acetylcholine; *p*-Chloroamphetamine; 5-HT$_4$ receptor; Frontal cortex; Rat (Yamaguchi, T. (772) 95)

Amphetamine; 5,7-Dihydroxytryptamine; Locomotion; Serotonin syndrome (Vanderwolf, C.H. (772) 121)

Lymnaea stagnalis; Osphradium; Sensory neuron; γ-Aminobutyric acid (GABA); FMRFamide; Electrophysiology; Transmitter interaction (Nezlin, L. (772) 217)

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SSRI; 5-HT$_2$; 5-HT$_2$ receptor; Antidepressant; Receptor coupling; G-protein (Li, Q. (775) 225)

Serotonin-1A
Betaxolol; β-Adrenoceptor; Autoreceptor; Electroencephalogram; Power spectral analysis; Rapid eye movement (REM) (Seifritz, E. (759) 84)

Serotonin 2A
Startle; Prepulse inhibition; Schizophrenia; Sensorimotor gating; Hallucinogens (Sipes, T.E. (761) 97)

Serotonin agonist
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Serotonin antagonist
Serotonin agonist; Locus coeruleus; Tandospirone; Ipsapirone; Noradrenaline (Hamamura, T. (759) 156)

Serotonin 1A receptor
[^{3}H]8-OH-DPAT; Human brain postmortem; Neocortex; Hippocampus; Gender; Aging (Palego, L. (758) 26)

Serotonin (5-HT)
Fast cyclic voltammetry; Lateral geniculate nucleus; Electrical stimulation; 5-HT$_{1B}$; 5-HT$_{1D}$; 5-HT uptake; Paroxetine (Davidson, C. (760) 238)

Serotonin 5-HT$_{1A}$ receptor
γ-Aminobutyric acid (GABA); *N*-Methyl-D-aspartate (NMDA) receptor; Serotonin; Dentate gyrus; Release; Guinea pig; High performance liquid chromatography (Matsuyama, S. (761) 105)

Sleep; Waking; Microdialysis; Dorsal raphe nucleus; 8-OH-DPAT (Bjorvatn, B. (770) 81)

WAY 100635; 7-Chloro-kynurenic acid; Glycine site; NMDA receptor; Scopolamine; Hippocampus; Spatial learning; Rat (Carli, M. (774) 167)

Serotonin 5-HT$_3$ receptor
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Serotonin (5-HT) syndrome
Circadian rhythm; Central 5-HT$_{1A}$ receptor; 8-OH-DPAT; Intracerebroventricular administration, chronopharmacology (Nagayama, H. (756) 92)

Serotonin metabolism
Streptozotocin diabetes; Serotonin release; Microdialysis; Restraint; Corticosterone; Elevated plus maze; Anxiety; Locomotor activity (Thorré, K. (772) 209)

Serotonin$_{1A}$ receptor
Acetylcholine; 8-Hydroxy-2-(di-*n*-propylamino)tetralin; NAN-190; Hippocampus; Microdialysis; Radioimmunoassay (Fujii, T. (761) 244)

Serotonin-2 receptor
Arachidonate; Docosahexaenoate; Phospholipase A$_2$; Phospholipase C; C6 glioma cell (Garcia, M.C. (768) 43)

Serotonin release
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Streptozotocin diabetes; Microdialysis; Serotonin metabolism; Restraint; Corticosterone; Elevated plus maze; Anxiety; Locomotor activity (Thorré, K. (772) 209)

Serotonin syndrome
Amphetamine; 5,7-Dihydroxytryptamine; Locomotion; Serotonin (Vanderwolf, C.H. (772) 121)

Serotonin transporter
Dopamine transporter; [^{3}H]BTCP; [^{3}H]Imipramine; Estradiol; Progesterone; α-Methyltestosterone; Gonadectomy (Attali, G. (756) 153)

Knockout mouse; Methamphetamine; Neurotoxicity; p53 (Hirata, H. (768) 345)

Raphe nuclei; Gene expression; In situ hybridization; [^{125}I]RTI-55 binding; Mice (Bengel, D. (778) 338)

Serum
Sialoglycopeptide; Apoptosis; PC12 cell; Dibutyryl cAMP; Nerve growth factor (Kobayashi, Y. (778) 309)

Serum deprivation
Apoptosis; Neuronal cell; Nerve growth factor; Neuroprotection; 5-HT$_{1A}$ agonist; 8-OH-DPAT (Ahlemeyer, B. (777) 179)

Serum-free culture
Microculture; Autapse; Glutamatergic transmission; Synaptogenesis; cAMP; Protein kinase A (Leßmann, V. (763) 111)

Serum morphine concentration
Morphine; L-Arginine; N^G-nitro-L-arginine; Antinociception; Nitric oxide synthase; Brain region; RIA (Bhargava, H.N. (749) 351)

Sex behavior
Preoptic area; Testosterone; Brain lesion; Excitotoxin; NMDA (*N*-methyl-D-aspartate); Aromatase; Musk shrew (Veney, S.L. (756) 273)

Sex difference
Bicuculline-induced convulsion; Handling stress; Swim stress; Flumazenil; Diazepam; Rat (Peričić, D. (752) 279)

Predator-induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Stress induction; Analgesia; κ opiate (Kavaliers, M. (768) 30)

Sex steroid
Cytochrome *P*-450; Testosterone; Progesterone; Competitive polymerase chain reaction; Induction; Suppression (Baum, L.O. (765) 67)

Sexual behavior
Luteinizing hormone-releasing hormone; Luteinizing hormone; Neural plasticity; Neuroendocrinology; Shrew (Tai, V.C. (772) 87)

Interleukin-1; Lipopolysaccharide; Sickness behavior; Partner preference; Open field test; Gender difference; Rat (Avitsur, R. (773) 149)

Enkephalin; Ventromedial hypothalamus; Phosphorothioate oligodeoxynucleotide; Antisense; mRNA (Nicot, A. (777) 60)

Sexual experience
Reptile; Prenatal; Embryo; Differentiation; Brain; Age (Crews, D. (758) 169)

Sexual function
Sexual reflex; Urethrogenital reflex; Ejaculation; Spinal cord (Durán, I. (775) 1)

Sexually dimorphic nucleus
GABA turnover; Gonadal steroid; Hypothalamus; Ventromedial nucleus; Medial preoptic nucleus; Rat (Grattan, D.R. (775) 244)

Sexual reflex
Urethrogenital reflex; Ejaculation; Spinal cord; Sexual function (Durán, I. (775) 1)

[γ-^{35}S]GTP binding
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Shaker K^+ channel
Single channel gating kinetics; Survival analysis; Shaker S4 region; Multiple regression analysis; Generalized gamma model (Shao, X.M. (770) 96)

Shaker S4 region
Shaker K^+ channel; Single channel gating kinetics; Survival analysis; Multiple regression analysis; Generalized gamma model (Shao, X.M. (770) 96)

Shell
Extracellular recording; Single neuron; Nucleus accumbens; Subterritory; Core; Rat; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Electrolytic lesion; Nucleus accumbens; Core; Sensorimotor gating; Startle reflex (Kodsi, M.H. (773) 45)

Dopamine efflux; Fast-scan cyclic voltammetry; Free-choice novelty; Nucleus accumbens: core; Shore (Rebec, G.V. (776) 61)

Sholl analysis
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Shore
Dopamine efflux; Fast-scan cyclic voltammetry; Free-choice novelty; Nucleus accumbens: core; Shell (Rebec, G.V. (776) 61)

Short-term plasticity
γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Inhibition; Paired-pulse depression; Superior colliculus; Transmitter release (Platt, B. (777) 131)

Short-term potentiation
Cytokine; CA1; Field potential; Post-tetanic potentiation; IL-6 receptor antibody (Li, A.-J. (748) 30)

Short-term synchronization
Corticospinal tract (Semmler, J.G. (767) 314)

Shrew
Luteinizing hormone-releasing hormone; Luteinizing hormone; Neural plasticity; Neuroendocrinology; Sexual behavior (Tai, V.C. (772) 87)

SHR rat
I_1-imidazoline receptor; Rostral ventrolateral medulla; PC12 cell; Diacylglycerol; Phosphocholine; PC-PLC; D609; Moxonidine (Separovic, D. (749) 335)

SHRSP
EPA-E; l-CBF; l-CGU; Hypertension; Prostaglandin; Vasodilation (Katayama, Y. (761) 300)

SH-SY5Y
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Sialoglycopeptide
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Sialyltransferase
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Sickness behavior
Interleukin-1; Lipopolysaccharide; Sexual behavior; Partner preference; Open field test; Gender difference; Rat (Avitsur, R. (773) 149)

Side superiority
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Learned bilateral blinking; Blink onset; Bilateral coupling; Temporal bilateral coordination; Corpus callosum; Split-brain; Cat (Spidalieri, G. (770) 30)

Sigma receptor
Movement disorder; Glutamate (Richter, A. (745) 336)

Signal transduction
Cardiovascular; Glutamate; Neurotransmission; Nitric oxide; Nitrosothiols (Ohta, H. (746) 98)

Primate; Imaging; Radiotracer; Lipid (Chang, M.C.J. (755) 74)

Glia; Myelination; Neurotrophic factor (Oh, L.Y.S. (757) 236)

G-protein; Dexamethasone; Glucocorticoid; Nerve growth factor (Li, X. (759) 213)

Calcium release; Endoplasmic reticulum; Aequorin luminescence; Pressure injection (Vallet, A.M. (768) 91)

Protein kinase C; Alzheimer's disease (Luo, Y. (769) 287)

Nucleus tractus solitarius; Respiratory control; Hypoxia; Protein kinase C; Ventilation (Gozal, D. (774) 246)

Basal forebrain; Whole-cell patch-clamp; Acutely dissociated neuron; Phosphorylation (Jassar, B.S. (775) 127)

Silent period
Transcranial magnetic brain stimulation; Simple reaction time; Motor cortex; Supplementary motor area; Spinal motoneuron excitability; F wave; Human (Ziemann, U. (744) 32)

Silent phase
Voluntary movement; Anticipatory postural adjustment; Hoffmann reflex (Komiyama, T. (766) 227)

Silicone
Nerve regeneration; Peripheral nerve; Nerve graft; Schwann cell; Implant; Matrix; Immunohistochemistry (Zhao, Q. (769) 125)

Silicone chamber
Diabetic neuropathy; Peripheral nerve regeneration; Schwann cell migration; Axon; Streptozocin (Tantuwaya, V.S. (759) 58)

Silkworm
Muscarinic acetylcholine receptor; Prothoracicotropic hormone; Neuropeptide secreting neuron; *Bombyx mori* (Aizono, Y. (763) 131)

Hydroxyindole-*O*-methyltransferase; Melatonin; Diurnal variation; *Bombyx mori*; Insect (Itoh, M.T. (765) 61)

Silver impregnation
Global brain ischemia; Neck tourniquet; Audiogenic seizure; Inferior colliculi (Vanický, I. (766) 262)

Simple reaction time
Transcranial magnetic brain stimulation; Silent period; Motor cortex; Supplementary motor area; Spinal motoneuron excitability; F wave; Human (Ziemann, U. (744) 32)

Single-channel current
Mutagenesis; Patch clamp; Gene expression; Retina (Lu, L. (756) 1)

Single channel gating kinetics
Shaker K^+ channel; Survival analysis; Shaker S4 region; Multiple regression analysis; Generalized gamma model (Shao, X.M. (770) 96)

Single neuron
Extracellular recording; Nucleus accumbens; Subterritory; Shell; Core; Rat; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Single neuron recording
Nucleus accumbens; Psychomotor stimulant; Cocaine; Self-administration; Appetitive behavior; Incentive stimulus; Reward (Peoples, L.L. (757) 280)

Single unit
Dentate gyrus; Interneuron; Population spike; Field potential (Kao, K. (752) 90)

Dopamine; Attention; Sensory; Ventral tegmental area (VTA); Mesolimbic (Horvitz, J.C. (759) 251)

Single unit activity
Cortical reorganization; Neuronal plasticity; Extracellular recording; Activity pattern (Webster, H.H. (750) 109)

Parasympathetic/sympathetic interaction; Medulla; Glutamate (McKitrick, D.J. (770) 213)

Single-unit recording
Dopamine; Cocaine; SCH 23390; Apomorphine; Substantia nigra; Ventral tegmental area (Lee, T.H. (744) 293)

Motor behavior; Psychomotor stimulant; Amphetamine; Striatum; Rat (West, M.O. (745) 331)

Striatum; Putamen; Rat; Electrophysiology; Somatotopy (Cho, J. (756) 241)

Spontaneous augmented breath; Post-inspiratory neuron; Post-inspiratory inspiratory activity; Medulla; Diaphragm electromyogram; Control of breathing (Takeda, M. (758) 218)

Motor behavior; Psychomotor stimulant; Cocaine; Striatum; Rat (Pederson, C.L. (760) 261)

SITS
Cerebral cortex; Ischemia/reperfusion; Volume regulation; Anion transport; Chloride channel; Dipyridamole; NPPB (Phillis, J.W. (758) 9)

Skeletal muscle afferent
Capsaicin; Cardiorespiratory reflex; Chemosensitive nerve ending; Nociceptive nerve ending (Kenagy, J. (744) 175)

SKF92374
Analgesia; Antinociception; Histamine; Opioid; H_1 receptor; H_2 receptor; H_3 receptor; Cimetidine (Li, B.Y. (748) 168)

SKF-82958
Glutamate; Amphetamine; Quinpirole; Nucleus accumbens; Microdialysis (Kalivas, P.W. (761) 173)

SKF 38393
Dopamine D_1 receptor; Dopamine D_2 receptor; Quinelorane; Raclopride; Immunohistochemistry (Cheung, S. (770) 176)

Skin vasomotion
Nitric oxide; Temperature regulation; Heat loss; Thermal panting; Arterial pressure and heart rate; Rabbit (Eriksson, S. (774) 269)

SK-N-SH neuroblastoma cell
β-Amyloid; Estradiol; Lipid peroxidation; Glucose utilization; Lactate production (Gridley, K.E. (778) 158)

Sleep
Basal forebrain; Broca; Diagonal band; In vitro; Microwire; Rat; Synaptic blockade; Thermoregulation; Thermosensitivity (Hays, T. (746) 52)

Agonist; Antagonist; Cholinergic; Medial preoptico-anterior hypothalamic area; Thermoregulation; Wakefulness (Mallick, B.N. (750) 311)

REM sleep; Prolactin; Pituitary; Brain temperature (Obál Jr., F. (755) 130)

Waking; Microdialysis; Dorsal raphe nucleus; Serotonin 5-HT_{1A} receptor; 8-OH-DPAT (Bjorvatn, B. (770) 81)

Endotoxin; Tumor necrosis factor; Electroencephalographic spectral analysis; Brain temperature; Rat (Lancel, M. (770) 184)

Waking; Intermediate stage; GABA antagonist, type B; Theta rhythm; Spindle; Rat (Gauthier, P. (773) 8)

Wakefulness; Arousal; Startle reflex; Pre-pulse inhibition (Horner, R.L. (778) 127)

Sleep deprivation
Caffeine; Bright light; Melatonin; Temperature; Adenosine; Circadian rhythm (Wright Jr., K.P. (747) 78)

Prostaglandin; Cerebrospinal fluid; Subarachnoid space; Basal forebrain; Stress; Brain temperature; Conscious rat (Ram, A. (751) 81)

Sleep development
Active sleep; Serotonin; 5-HT_2 receptor; REM sleep (Frank, M.G. (768) 287)

Sleep regulation
Active sleep; Ontogeny; Neonate; Acetylcholine (Frank, M.G. (778) 64)

Slice
Spinal cord; Development (Hochman, S. (767) 214)

Slice culture
Suprachiasmatic nucleus; Arg-vasopressin; γ-Aminobutyric acid (Isobe, Y. (755) 213)

Nitric oxide; *N*-Methyl-D-aspartate; Spectrin; Long-term potentiation (Musleh, W. (770) 298)

Slice preparation
Interleukin-1β; Synaptic inhibition; Pyramidal cell granule cell; Intracellular recording; Hippocampus (Zeise, M.L. (768) 341)

Slow axonal transport
Cyclophilin A; Peptidyl-prolyl *cis-trans* isomerase; Molecular chaperone; Protein folding; Actin; Axon; Data searching (Yuan, A. (771) 203)

Slow evolution of disease
Parkinson's disease; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Monkey; Chronic model (Bezard, E. (766) 107)

Slow inactivation
Neuropathic pain; Sodium channel (Elliott, J.R. (754) 221)

Slow wave
Basal forebrain; Urethane-anesthetized rat; Unit recording; Electroencephalogram; Low-voltage fast activity; Cortical arousal (Détári, L. (759) 112)

Slow-wave activity
Extended sleep; Electroencephalogram; Spectral analysis; Spindle frequency activity; Thalamocortical neurons (Aeschbach, D. (748) 131)

Slow-wave sleep
Stress; Paradoxical sleep; Radioimmunoassay; Corticotropin-like intermediate lobe peptide, $ACTH_{18-39}$; Rat (Bonnet, C. (751) 54)

Small intestine
Tract-tracer; β-Galactosidase; Autonomic anatomy; Sympathetic topography (Mabon, P.J. (753) 245)

Sminthopsis crassicaudata
Opioid; Palatability; Naloxone; Naltrindole; Nor-binaltorphimine (Hope, P.J. (764) 39)

Smooth muscle
Muscarinic receptor; Intracerebral blood vessel; Confocal microscopy; Immunofluorescence; Endothelium (Badaut, J. (778) 25)

Smooth muscle cell
Amyloid-β accumulation; Amyloid-β precursor protein processing; Monokines (Mazur-Kolecka, B. (760) 255)

Snail
Alcohol; Membrane current; *Helix pomatia*; Invertebrate; Protein kinase C; G-Protein (Kerschbaum, H.H. (765) 30)

SNAP-25
Bradykinin; Astrocyte; Glutamate release; Synaptobrevin; Clostridial neurotoxin; Syntaxin; Rat (Jeftinija, S.D. (750) 41)

Sneeze
Multifunctional neuron; Multiconvergent neuron; Respiratory neuron; Nucleus tractus solitarius; Respiratory reflex; Nasal afferent; Vagal afferent (Wallois, F. (768) 71)

Sneeze reflex
Postnatal development; Respiratory control; Trigeminal afferent; Brainstem; Transsynaptic labeling; Fos-like immunohistochemistry; Cat (Masmoudi, K. (757) 102)

SN56 neuronal cell line
Tacrine; Calcium imaging; Calcium channels; Intracellular calcium; Acetylcholinesterase; Neurons in culture (Doležal, V. (769) 219)

Social isolation stress
Pentobarbital sleep; $GABA_A$/benzodiazepine receptor complex; GABA-stimulated $^{36}Cl^-$ uptake (Ojima, K. (745) 127)

Ethanol; Pentobarbital; Chloral hydrate; CRF system; $GABA_A$/benzodiazepine receptor complex (Matsumoto, K. (753) 318)

Social recognition
Vasopressin; Lateral septum; Object recognition; V1-receptor; Habituation; Rat (Everts, H.G.J. (760) 1)

Sodium
Heat shock; Ethanol; Intracellular pH; Potassium; Monensin; Membrane potential; Lactate; Glioma (Skrandies, S. (746) 220)

Hippocampus; CA1; Anoxia; Tetrodotoxin; Amiloride (Fung, M.-L. (762) 97)

Sodium channel
Penumbra; Ischemia; Hippocampus; Neuroprotective drugs; Ion-sensitive microelectrode; Energy metabolism; Purine (Ashton, D. (745) 210)

Cerebral ischemia; Excitatory amino acid; Glutamate (Kawaguchi, K. (749) 131)

Neuropathic pain; Slow inactivation (Elliott, J.R. (754) 221)

Sodium current
Calcium current; Brain slice; G protein; Lateral septum; Metabotropic glutamate receptor; Non-selective channel (Raggenbass, M. (776) 75)

Sodium cyanide
Carotid body; Chemoreceptor; Chemosensory inhibition; Nitric oxide; Sodium nitroprusside (Alcayaga, J. (767) 384)

Sodium nitroprusside
Nitric oxide; Spinal cord; Blood pressure; L-Arginine; N^G-Nitro-L-arginine methyl ester (L-NAME); Methylene blue (Del Carmen García, M. (764) 67)

Phenylephrine; Lidocaine; Parasympathetic; Sympathetic; Baroreflex sensitivity (Saleh, T.M. (767) 201)

Carotid body; Chemoreceptor; Chemosensory inhibition; Nitric oxide; Sodium cyanide (Alcayaga, J. (767) 384)

Solitary nucleus
Visceral afferent; Esophagus; Stomach; Nodose ganglion; DiI in vivo tracing; Gastric distension; c-Fos expression (Berthoud, H.-R. (746) 195)

Soman
Thyrotropin-releasing hormone (TRH); Seizure; Metabolism; Acetylcholine; Excitotoxicity; Organophosphorus (Kubek, M.J. (747) 328)

Somatosensation
Glutamate; γ-Aminobutyric acid (GABA); Glycine; Ventrobasal thalamus; Interneuron (Popratiloff, A. (754) 333)

Somatosensory
Nitrinergic transmission; Astrocyte; Immunocytochemistry; Nitric oxide; Brainstem (Kharazia, V.N. (744) 151)

Avian; Parrot; Nucleus basalis; Tactile representation (Wild, J.M. (755) 137)

Spinal cord; Nociception; Tachykinin; Substance P (King, A.E. (767) 55)

Somatosensory cortex
Cytoarchitecture; Empirical method; Cat (Myasnikov, A.A. (750) 95)

Magnetoencephalography; Movement-evoked field; Sensory feedback; Motor control (Cheyne, D. (771) 196)

Somatosensory evoked field
Neuromagnetism; Hand cortical representation; Interhemispheric difference (Tecchio, F. (767) 100)

Somatosensory evoked potential
Dipole tracing; Monkey; Posterior tibial nerve (Hayashi, N. (774) 44)

Somatosensory plasticity
Nerve injury; Primate cuneate nucleus; Brainstem mapping; Cortex; Denervation (Xu, J. (774) 211)

Somatosensory system
Nucleus X; Brainstem; Medulla oblongata; Inferior colliculus; Thalamus; Cerebellum; Rat (Li, H. (774) 200)

Somatostatin
Cholecystokinin; μ Agonist; μ Antagonist; κ Antagonist; Body temperature (Ghosh, S. (745) 152)

Microdialysis; Growth hormone; Food deprivation; Circadian rhythm; Adenohypophysis (Ishikawa, M. (749) 226)

Brain-derived neurotrophic factor; Gene expression; Primate; Central nervous system; Aging (Hayashi, M. (749) 283)

VIP; NPY; Cerebral cortex; Aged rat; Loss of neurons; Irregular orientation; Immunocytochemistry (Cha, C.I. (753) 235)

Aging; Alzheimer's disease; Astrocyte; Cognition; Cysteamine; Hippocampus; Inclusions; Locomotion (Justino, L. (761) 127)

Ihara's genetically epileptic rat; Neuropeptide Y; Corticotropin-releasing factor; Epilepsy (Takahashi, Y. (776) 255)

Push–pull perfusion; Vagus nerve; Substance P; Calcitonin gene-related peptide; Neurotensin; Cholecystokinin (Saleh, T.M. (778) 56)

Somatostatin receptor
Desensitization; Glial cell; Proliferation; Immunostaining; Octreotide (Feindt, J. (746) 309)

Somatotopy
Striatum; Putamen; Rat; Single unit recording; Electrophysiology (Cho, J. (756) 241)

Songbird
Avian; Parrot; Auditory system; Field L; Nucleus basalis; Vocal learning (Farabaugh, S.M. (747) 18)

Photoperiod; Testosterone; Plasticity; Vocalization; Seasonality (Bernard, D.J. (760) 163)

Song control nucleus
Choline acetyltransferase; Fluoro-Red; Forebrain; Retrograde tracer; Zebra finch (Li, R. (763) 239)

Soreness
Eccentric exercise; Muscle damage; Muscle spindle; Tendon organ; Proprioception; Fatigue; Voluntary contraction (Brockett, C. (771) 251)

Soybean agglutinin
Amphibians; *Pipa*; Olfactory system; Accessory olfactory system; NADPH-diaphorase; Lectin (Meyer, D.L. (762) 275)

Spatial learning
Excitatory amino acid; Kunming mouse; Excitotoxicity; Late stage of pregnancy; Mouse fetal brain; Convulsion; Y-maze discrimination learning; Obesity; Reproductive capacity (Yu, T. (747) 195)

Global ischemia; Flupirtine; Rat (Block, F. (754) 279)

Mouse; Transgenic; Plasticity; Synaptophysin; GAP43; Morris water maze; Entorhinal cortex lesion (Hardman, R. (758) 187)

WAY 100635; Serotonin 5-HT_{1A} receptor; 7-Chloro-kynurenic acid; Glycine site; NMDA receptor; Scopolamine; Hippocampus; Rat (Carli, M. (774) 167)

Spatial recognition memory
Learning; Adrenal steroid; Aldosterone; Type I receptor; Type II receptor; Discrimination memory (Conrad, C.D. (759) 76)

Species difference
Mouse; Monoamine oxidase; Transgenic animal; Histochemistry; Catecholamine; Serotonin; Aggressive behavior (Ikemoto, K. (771) 121)

Specificity
Nucleoside; Thymidine; Transport; Carrier-mediated; NBMPR; Blood-brain barrier; Choroid plexus (Thomas, S.A. (760) 59)

Spectral analysis
Extended sleep; Electroencephalogram; Spindle frequency activity; Slow-wave activity; Thalamocortical neurons (Aeschbach, D. (748) 131)

Spectrin
Nitric oxide; *N*-Methyl-D-aspartate; Long-term potentiation; Slice culture (Musleh, W. (770) 298)

Spectrophotometry
Cortical metabolism; Cortical blood volume; Oscillation; Cytochrome aa_3; Interhemispheric (Vern, B.A. (775) 233)

Spermidine
Polyamine immunocytochemistry; Monoclonal antibody; Spermine; Ornithine decarboxylase (Fujiwara, K. (767) 166)

Cocaine; Lidocaine; Convulsion; *N*-Methyl-D-aspartate receptor (Shimosato, K. (775) 198)

Spermine
Polyamine; Cerebellar granule cell; Apoptosis; *N*-Methyl-D-aspartate receptor; CPP32; Caspase (Harada, J. (753) 251)

Polyamine immunocytochemistry; Monoclonal antibody; Spermidine; Ornithine decarboxylase (Fujiwara, K. (767) 166)

Calcium channel; N-type Ca^{2+} channel; Field potential; Mathematical model; Neurotransmission (Eterović, V.A. (772) 191)

Sphenopalatine ganglion
Brainstem; Parasympathetic pathway; Retrograde tracing; Nitric oxide synthase; Choline acetyltransferase (Zhu, B.-S. (769) 168)

Choline acetyltransferase; NADPH diaphorase; Nitric oxide synthase; Retrograde axonal tracing; True blue; Cerebral blood vessel (Kimura, T. (773) 117)

Spice
Irritant; Black pepper; Chemosensitivity; Capsaicin; Proton; Synergy; Antagonist; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

Spike afterhyperpolarization
Suprachiasmatic nucleus; Circadian rhythm; Brain slice; Whole-cell patch-clamp; H-current; Spontaneous firing (De Jeu, M.T.G. (767) 72)

Spike train
Medulla; Pain; Microstimulation; Oscillation; Autocorrelogram (Hentall, I.D. (745) 348)

Spinal cord
Parabrachial nucleus; Kölliker-Fuse nucleus; Thalamus; Axon collateral; Pain; Retrograde labeling; Rat (Li, J.-L. (745) 321)

Astroglia; Microglia; Motoneuron; Sensory ganglion; Nerve injury; GFAP; OX-42 (Molander, C. (747) 122)

Hypothalamus; Suprachiasmatic nucleus; Paraventricular nucleus; Vasoactive intestinal polypeptide; Light; Melatonin (Teclemariam-Mesbah, R. (748) 71)

Pain facilitation; Hyperalgesia; Rat; Nucleus tractus solitarius; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Formalin; Endotoxin; Lipopolysaccharide (Wiertelak, E.P. (748) 143)

Corticosteroid; Calpain; Inhibitor; Neurofilament; Myelin basic protein; Neuroprotection (Banik, N.L. (748) 205)

U-50,488H; κ-Opioid receptor agonist; Tolerance; [^{3}H]MK-801 binding; Brain region; Rat (Bhargava, H.N. (749) 347)

Estrogen; Progesterone; Opioid analgesia (Dawson-Basoa, M. (750) 48)

c-Fos; Immediate-early-gene; Nitrous oxide; Halothane; Analgesia; Rat (Hagihira, S. (751) 124)

Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Neurokinin A; Flexor reflex (Jia, Y.-p. (751) 169)

Calpain; Expression; Trauma; Neurofilament protein; Proteinase (Banik, N.L. (752) 301)

Epibatidine; Nicotinic receptor; Cardiovascular response; Behavioral response (Khan, I.M. (753) 269)

Sympathetic afferent; Immediate early gene; Renorenal reflex; Visceral pain; Kidney (Fitch, G.K. (753) 340)

Morphine; Midazolam; Opioid; Benzodiazepine; Tolerance dependence; Dynorphin(1–13); Opioid peptide; Brain region; Pituitary gland; Peripheral tissue (Rattan, A.K. (754) 239)

N-Methyl-D-aspartate (NMDA) receptor; Chronic pain; Adrenal medulla; Peripheral neuropathy; Neuropeptide (Siegan, J.B. (755) 331)

Tolerance; Chronic pain; Allodynia; Intrathecal; Opioid (Yu, W. (756) 141)

Pregnancy; Estrogen; Progesterone; Opioid analgesia; Gender (Dawson-Basoa, M. (757) 37)

N-Methyl-D-aspartate; Glutamate; Glycine; MK-801; Cerebral cortex (Liu, Y. (757) 167)

Sympathetic nervous system; Neuropeptide; Excitatory amino acid (Beyaert, C.A. (759) 175)

Antinociception; Substance P; *N*-methyl-D-aspartate; Naloxone; Opioid; Capsaicin; Intrathecal administration (Masuyama, T. (759) 241)

Adenosine; Substance P; Morphine (Cahill, C.M. (760) 294)

Nociception; Pain; Electrical stimulation (Romita, V.V. (761) 192)

Aging; GM1 ganglioside; Cholinergic neuron; Choline acetyltransferase; High-affinity choline transport; Hemicholinium-3 binding (Vogelsberg, V. (761) 250)

Dorsal root; X-radiation; Regeneration; Schwann cell (Sims, T.J. (763) 141)

Nitric oxide; Blood pressure; L-Arginine; N^G-Nitro-L-arginine methyl ester (L-NAME); Sodium nitroprusside; Methylene blue (Del Carmen García, M. (764) 67)

Brain-derived neurotrophic factor; Nerve growth factor; Dorsal root ganglion; Peripheral inflammation; Pain; Immunohistochemistry (Cho, H.-J. (764) 269)

Antinociception; 7-Benzylidinenaltrexone (BNTX); Naltriben (NTB); δ Opioid receptor; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α (Hammond, D.L. (765) 177)

Serotonin; Serotonin 5-HT_3 receptor; Nociception; Rat (Bardin, L. (765) 267)

Astrocyte; Cerebellum; Cerebral cortex; Ependyma; Glia; Folic acid; Formate; Tetrahydrofolate dehydrogenase (Neymeyer, V. (766) 195)

Somatosensory; Nociception; Tachykinin; Substance P (King, A.E. (767) 55)

Splanchnic nerve; Sympathetic column; Fluorogold; Corticotropin releasing hormone; Adrenal (Li, C. (767) 87)

Development; Slice (Hochman, S. (767) 214)

Regional heterogeneity; Paw withdrawal; Tail flick; Forepaw; Hind paw (Kusmirek, J. (767) 375)

Adenovirus; β-Galactosidase; Gene transfer; Immune response; Cyclosporin A; Clarke's nucleus; Red nucleus (Liu, Y. (768) 19)

Neurosteroid; Amphibian embryo; GABA transmission (Reith, C.A. (770) 202)

Autoradiography; α_{2A}-Adrenoceptor; α_{2C}-Adrenoceptor; [^{3}H]MK912; Striatum (Uhlén, S. (770) 261)

Excitatory amino acid; Glutamate; DL-Threo-β-hydroxyaspartate; Glutamate transporter; 1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor; Amyotrophic lateral sclerosis; Neurotoxicity (Hirata, A. (771) 37)

Carbon fiber; Nitric oxide (NO); Voltammetry (Rivot, J.-P. (773) 66)

Inhibition; Toxin (Bagust, J. (773) 181)

Sexual reflex; Urethrogenital reflex; Ejaculation; Sexual function (Durán, I. (775) 1)

Morphine; Midazolam; Opioid; Benzodiazepine; Met-enkephalin; Tolerance; Brain region; Peripheral tissue; Central nervous system (Tejwani, G.A. (775) 119)

Optic nerve; Sciatic nerve; Immunohistochemistry; Calcium; Myelin; Node of Ranvier (Steffensen, I. (776) 1)

Pain; Metabotropic glutamate receptors; Analgesia; Nociception (Young, M.R. (777) 161)

Spinal cord injury
Ionotropic; Quisqualate; AMPA; NMDA (Liu, S. (756) 160)

Cytokine; CNS; Contusion; mRNA; ELISA (Wang, C.X. (759) 190)

Sympathetic nerve discharge; Neonate; Immediate-early response gene (Ruggiero, D.A. (759) 301)

Secondary damage; Interleukin-1β; Interleukin-6; Tumor necrosis factor α; Macrophage invasion; Central nervous system (Klusman, I. (762) 173)

Sympathetic nerve activity; Sensory afferent; Rat; c-*fos* gene (Ruggiero, D.A. (763) 21)

Sympathetic nerve discharge; Respiration; Neonate (Sica, A.L. (767) 380)

Axotomy; Cell death; Ciliary neurotrophic factor; Cytokine; Neuronal cell culture; Trophic factor (Rosenberg, L.J. (775) 209)

Spinal cord lesions
Ventrolateral funiculus; Visceral nociception; Viscerosomatic convergence; Referred pain (Zhang, J. (771) 25)

Spinal facilitation
Nociceptin; Opioid receptor-like$_1$ receptor; Carageenan test; Thermal hyperalgesia (Yamamoto, T. (754) 329)

Spinalization
Hyperalgesia; Neuropathic pain; Pain; Rat; Sciatic nerve (Kauppila, T. (770) 310)

Spinal microdialysis
α-Trinositol; Antinociception; Amino acid; Prostaglandin E_2; Formalin test (Malmberg, A.B. (747) 160)

Spinal motoneuron excitability
Transcranial magnetic brain stimulation; Simple reaction time; Silent period; Motor cortex; Supplementary motor area; F wave; Human (Ziemann, U. (744) 32)

Spinal neuron
Fetal spinal cord; Transplantation; Muscle reinnervation; Sciatic nerve; Axonal growth; Choline acetyltransferase; Cholera toxin B (Katsuki, M. (771) 31)

Inflammation; Hyperalgesia; Nociceptor; Pain (Randich, A. (772) 135)

Spinal transection
Neuropeptide Y; Antibody microprobe; Spontaneous release; Rat spinal cord; Cat spinal cord (Mark, M.A. (754) 195)

Spinal trigeminal nucleus
Pain; Caudalis; Parabrachial; Medulla (Allen, G.V. (754) 269)

Spindle
Sleep; Waking; Intermediate stage; GABA antagonist, type B; Theta rhythm; Rat (Gauthier, P. (773) 8)

Spindle frequency activity
Extended sleep; Electroencephalogram; Spectral analysis; Slow-wave activity; Thalamocortical neurons (Aeschbach, D. (748) 131)

Spine density
Excitotoxicity; Axonal sprouting; Sholl analysis (Isokawa, M. (744) 339)

Spiny neuron
Caudate putamen; Interneuron; Intracellular calcium; Endoplasmic reticulum; Dendritic spine (Martone, M.E. (756) 9)

Spiral ganglion cell
Nitric oxide; Nitric oxide synthase (neuronal, endothelial, inducible); Hair cell; Stria vascularis; Spiral ligament; Blood flow regulation; Neuromodulation (Gosepath, K. (747) 26)

Spiral ligament
Nitric oxide; Nitric oxide synthase (neuronal, endothelial, inducible); Hair cell; Spiral ganglion cell; Stria vascularis; Blood flow regulation; Neuromodulation (Gosepath, K. (747) 26)

Stria vascularis; Marginal cell; Fibrocyte; Bumetanide-sensitive Na-K-2Cl cotransporter (Goto, S. (765) 324)

Splanchnic nerve
Spinal cord; Sympathetic column; Fluorogold; Corticotropin releasing hormone; Adrenal (Li, C. (767) 87)

Spleen
Dopamine; Dopamine β-hydroxylase; Sympathetic neurotransmitter; Neuroimmunomodulation; Stress (Bencsics, A. (761) 236)

Neuroimmune; Lipopolysaccharide; Zymosan; Kainic acid; Astrocyte; Microglia (Charlton, M.E. (764) 141)

Split-brain
Learned bilateral blinking; Blink onset; Side superiority; Bilateral coupling; Temporal bilateral coordination; Corpus callosum; Cat (Spidalieri, G. (770) 30)

Spontaneous activity
Hippocampus; Human; Medial temporal lobe; Functional brain imaging; MEG magnetoencephalographic source mapping; Theta; SSP signal-space projection (Tesche, C.D. (749) 53)

Burst discharge; Time-series analysis; Mitral/tufted cell; Olfactory bulb; Cat (Motokizawa, F. (763) 285)

Spontaneous augmented breath
Dorsal respiratory group; Ventral respiratory group; Inspiratory neuron; Expiratory neuron; Extracellular recording (Takeda, M. (749) 95)

Post-inspiratory neuron; Post-inspiratory inspiratory activity; Medulla; Diaphragm electromyogram; Single unit recording; Control of breathing (Takeda, M. (758) 218)

Spontaneous firing
Suprachiasmatic nucleus; Circadian rhythm; Brain slice; Whole-cell patch-clamp; H-current; Spike afterhyperpolarization (De Jeu, M.T.G. (767) 72)

Spontaneously hypertensive rat
Focal cerebral ischemia; Microcirculation; Perfusion; Fluorescence microscopy; Evans blue; Phenylephrine; Hypertension (Dawson, D.A. (749) 200)

Forced swimming test; Brown-Norway rat; Fisher 344 rat; Lewis rat; Wistar-Kyoto rat; Corticotropin-releasing factor; Depression (Lahmame, A. (750) 285)

M2 muscarinic receptor; Blood pressure; Rostral ventrolateral medulla; Polymerase chain reaction; Autoradiography (Gattu, M. (756) 125)

Learning and memory; Morris water maze; Passive avoidance; Nicotinic acetylcholine receptor; Rubidium efflux; Vesicular acetylcholine transporter; Autoradiography (Gattu, M. (771) 89)

Nicotinic receptor; Water maze; Passive avoidance; Autoradiography; Rubidium efflux; Learning and memory (Gattu, M. (771) 104)

M1 muscarinic receptor; M2 muscarinic receptor; Blood pressure; Autoradiography; Hypothalamus; Medulla (Gattu, M. (771) 173)

Blood pressure; Corticotropin-releasing factor; Electrophysiology; Locus coeruleus; Wistar–Kyoto rat (Conti, L.H. (774) 27)

Spontaneous release
Neuropeptide Y; Antibody microprobe; Rat spinal cord; Cat spinal cord; Spinal transection (Mark, M.A. (754) 195)

Chronic constriction injury; Dorsal horn; Galanin; Antibody microprobe (Colvin, L.A. (766) 259)

Pregnenolone sulfate; Neurosteroid; Cultured hippocampal neurons; Whole-cell patch clamp recording; γ-Aminobutyric acid; Presynaptic action (Teschemacher, A. (772) 226)

Spontaneous seizure
Kindling; Chronic epilepsy; Prolonged postictal convulsive state; Dominant focus; Mossy fiber sprouting (Timofeeva, O.A. (754) 227)

Spreading depression
Probenecid; Microdialysis; *N*-Methyl-D-aspartate; DC potential; Organic anion transport; Kynurenic acid; Lactate (Taylor, D.L. (764) 117)

Sprouting
Plasticity; Transplant; Synaptogenesis; Hippocampus; Dentate gyrus; Deafferentation; Reinnervation (Field, P.M. (751) 352)

Dorsal rhizotomy; Brainstem; Gracile nucleus; Deafferentation (Sengelaub, D.R. (769) 256)

Long-term potentiation; Kindling; Hippocampus; Mossy fiber; Plasticity (Adams, B. (775) 193)

Squirrel monkey
Alzheimer's disease; Amyloid β protein; Cerebral amyloid angiopathy; Immunocytochemistry; Enzyme-linked immunosorbent assay (Sawamura, N. (764) 225)

1*S*,3*R*-ACPD
Quinolinic acid; Kainic acid; NMDA receptor; Apoptosis; Excitotoxicity; Neurodegeneration (Wang, Y. (772) 45)

SSP signal-space projection
Hippocampus; Human; Medial temporal lobe; Functional brain imaging; MEG magnetoencephalographic source mapping; Spontaneous activity; Theta (Tesche, C.D. (749) 53)

SSRI
Serotonin; Receptor coupling; Antidepressant; 5-HT uptake inhibitor; Gpp(NH)p; 8-OH-DPAT binding; Hypothalamus (Li, Q. (769) 141)

Serotonin; 5-HT_2; 5-HT_2 receptor; Antidepressant; Receptor coupling; G-protein (Li, Q. (775) 225)

Staircase test
Alphaxalone; Alprazolam; Anxiolytic; Flumazenil; $GABA_A$ receptor; Muscimol; Neuroactive steroid (Pick, C.G. (765) 129)

Startle
Attention; Experimental set; Reaction time; Reticulo-spinal pathway; Habituation; Electromyography (Valls-Solé, J. (751) 155)

Prepulse inhibition; Serotonin 2A; Schizophrenia; Sensorimotor gating; Hallucinogens (Sipes, T.E. (761) 97)

Startle reflex
Electrolytic lesion; Nucleus accumbens; Core; Shell; Sensorimotor gating (Kodsi, M.H. (773) 45)

Sleep; Wakefulness; Arousal; Pre-pulse inhibition (Horner, R.L. (778) 127)

Starvation
Free radical; Glutathione; Anisotropy; Mouse; Astrocyte; Lipid peroxidation; Primary culture (Papadopoulos, M.C. (748) 151)

Static muscle contraction
c-Fos; Vasopressin; Oxytocin; Hypothalamus; Exercise pressor reflex; Cat (Li, J. (752) 45)

Status epilepticus
Epilepsy; Development; MK-801; Neuropathology (Thompson, K. (751) 96)

Alveus; *Str. radiatum*; Epilepsy; Muscarinic receptor; γ-Aminobutyric acid (GABA); Inhibition (Sayin, Ü. (758) 136)

Neuronal migration disorder; Immunohistochemistry; Kainic acid (Germano, I.M. (777) 219)

Stellate ganglion
Superior cervical ganglion; Prevertebral ganglion; Myenteric ganglion; Dorsal root ganglion (Dun, N.J. (760) 8)

Step-down passive avoidance task
Leupeptin; Protease inhibitor; Lipofuscin; Degenerated neuron and process; Dentate gyrus; Hippocampus; Memory (Arai, T. (754) 157)

Stepping
Central pattern generator; Cervical spinal cord; Decerebrate cat (Seki, K. (753) 56)

Stereology
Calcium-binding protein; Neuropeptide; Immunohistochemistry; Hippocampus; Rat (Nomura, T. (764) 197)

Stereotyped behavior
SCH 23390; Dopamine agonists; Immunoblot; Striatal c-*fos* (Muñoz, J.E. (774) 51)

Stereotypy
Behavioral sensitization; Cocaine; Drug abuse; Nitric oxide; Stimulant (Haracz, J.L. (746) 183)

Steroid
NMDA; Glutamate receptor; Estradiol; Excitotoxicity; Calcium; Neuroprotection (Weaver Jr., C.E. (761) 338)

Testosterone; Androgen; Corpus callosum; Commissure; Interhemispheric; Human (Moffat, S.D. (767) 297)

Acetylcholine; Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Memory; Neurosteroid; Sulfatase (Rhodes, M.E. (773) 28)

Steroid hormone
Immediate–early gene protein; Estrogens; Hypothalamus; Gonadotrophin releasing hormone; Ovulation (Le, W.-W. (778) 272)

Steroidogenesis
Peripheral benzodiazepine receptor; Central benzodiazepine receptor; Estradiol; Progesterone; Corticosterone (Weizman, R. (772) 203)

Steroidogenic pathway
Pituitary; Synthesis of neuroactive 3α HP; Neurosteroid synthesis; 3α-Hydroxy-4-pregnen-20-one (3α HP) synthesis and metabolism; 3α HP; Allopregnanolone synthesis from 3α HP (Wiebe, J.P. (764) 158)

Stimulant
Behavioral sensitization; Cocaine; Drug abuse; Nitric oxide; Stereotypy (Haracz, J.L. (746) 183)

Stimulus–response function
Experimental muscle pain; Hypertonic saline; Referred pain; Referred sensibility change (Graven-Nielsen, T. (744) 121)

Stomach
Visceral afferent; Esophagus; Nodose ganglion; DiI in vivo tracing; Gastric distension; c-Fos expression; Solitary nucleus (Berthoud, H.-R. (746) 195)

Heat shock protein (HSP)70; Restraint water-immersion stress; Cerebral cortex; Rat; Messenger RNA; Northern blotting (Fukudo, S. (757) 146)

Strain difference
Rat; Kindling; Pentylenetetrazol; Long-term potentiation; Glutamate binding; Epilepsy (Becker, A. (763) 87)

Stratum radiatum
Estradiol; LTP; CA1; Synaptic plasticity; Memory; Freely moving rats (Córdoba Montoya, D.A. (778) 430)

Streptozocin
Diabetic neuropathy; Peripheral nerve regeneration; Silicone chamber; Schwann cell migration; Axon (Tantuwaya, V.S. (759) 58)

Streptozotocin
Drinking; Acetylcholine; Atropine; Diabetes mellitus; Lateral hypothalamus (Murzi, E. (752) 184)

Protein kinase C; Isozyme; Diabetic neuropathy (Roberts, R.E. (754) 147)

Neuropeptide Y; PreproNPY mRNA; Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Diabetes; Hyperphagia (Sahu, A. (755) 339)

Glutamate receptor; Hippocampus; PLA_2 (Chabot, C. (768) 249)

Streptozotocin diabetes
Serotonin release; Microdialysis; Serotonin metabolism; Restraint; Corticosterone; Elevated plus maze; Anxiety; Locomotor activity (Thorré, K. (772) 209)

Stress
Scent marking; Aggression; Medial preoptic area; Anterior hypothalamus (Bamshad, M. (744) 15)

Supraoptic nucleus; Immunocytochemistry; Immediate early gene; Transcription factor; Vasopressin; Oxytocin; Osmotic stimulation (Wang, K. (746) 117)

Learning; Plasticity; Immunohistochemistry; Gene expression; Hearing deficit; Novel sound stimulation (Hillman, D.E. (748) 77)

Aging; Alzheimer's disease; Calcium; Cognition; Glucocorticoid; Memory; Morphometry (Dachir, S. (748) 175)

Slow-wave sleep; Paradoxical sleep; Radioimmunoassay; Corticotropin-like intermediate lobe peptide, $ACTH_{18-39}$; Rat (Bonnet, C. (751) 54)

Prostaglandin; Sleep deprivation; Cerebrospinal fluid; Subarachnoid space; Basal forebrain; Brain temperature; Conscious rat (Ram, A. (751) 81)

Osmotic challenge; Neuroendocrine function; Reproduction; Hypothalamus (Woodside, B. (752) 319)

Restraint; Sensitization; Haloperidol; 8-OH-DPAT; $5\text{-}HT_{1A}$; Vacuous chewing movement; Catalepsy; Rat (Fdez. Espejo, E. (755) 351)

Corticosterone; ACTH; Suprachiasmatic nucleus; Adrenal cortex; Circadian; Paraventricular nucleus (Buijs, R.M. (758) 229)

Anxiety; Alcoholism; Amygdala; Emotionality (Möller, C. (760) 94)

Serotonin; Microdialysis; Striatum; Hippocampus; Corticosterone (Kirby, L.G. (760) 218)

Dopamine; Dopamine β-hydroxylase; Sympathetic neurotransmitter; Spleen; Neuroimmunomodulation (Bencsics, A. (761) 236)

Estrogen; Androgen; Proenkephalin; Hybridization, in situ; Corticotropin releasing factor; C-*fos*; Paraventricular nucleus; Hypertonic saline; Novelty heteronuclear RNA (Yukhananov, R.Y. (764) 109)

Animal model; Blood pressure; γ-Aminobutyric acid (GABA); Glutamate; Heart rate; *N*-Methyl-D-aspartate (NMDA); Non-NMDA; Panic (Sajdyk, T.J. (764) 262)

Hippocampus; Cholinergic; Adrenocorticotropin; Corticosterone; Theta; Fear (Bhatnagar, S. (766) 244)

6-Hydroxydopamine; Immunocytochemistry; Medial prefrontal cortex; Neostriatum; Nucleus accumbens core and shell; Schizophrenia; Tyrosine hydroxylase (King, D. (767) 192)

NGFI-B; c-*fos*; Rat; Lactation; Paraventricular nucleus; Lateral septum; Amygdala (Da Costa, A.P.C. (770) 151)

Brain–gut axis; Autonomic nervous system; Subcoeruleus nucleus; Nucleus of the solitary tract; Area postrema (Mönnikes, H. (770) 277)

Cocaine; Dopamine transporter; Norepinephrine transporter; Prefrontal cortex (Meiergerd, S.M. (773) 203)

Vasopressin; Corticotropin; Sensitization; Acoustic startle reflex (Pelton, G.H. (778) 381)

Stress induced analgesia
Parasite; Behavior; Analgesia; Predator induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; *Heligmosomoides polygyrus* (Kavaliers, M. (766) 11)

Magnetic field; Pain; Nociception; Pain-related somatosensory evoked potential; Habituation (Sartucci, F. (769) 362)

Stress induction
Sex difference; Predator-induced analgesia; Opioid analgesia; Non-opioid analgesia; NMDA mechanism; Analgesia; κ opiate (Kavaliers, M. (768) 30)

Stress ulcer
Paraventricular nucleus; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

Striatal c-*fos*
Stereotyped behavior; SCH 23390; Dopamine agonists; Immunoblot (Muñoz, J.E. (774) 51)

Striatal GABAergic interneuron
AMPA-type glutamate receptor; Basal ganglia; Double immunocytochemistry; Immunofluorescence; Light microscopy (Kwok, K.H.H. (778) 43)

Striate cortex
Extrastriate visual cortex; Subcortical visual pathway; Calcium-binding protein; Visual system; Thalamus; Primate (Gutierrez, C. (765) 349)

Stria terminalis
Amygdala; Lateral septum; Hypothalamus (Wang, Z. (768) 147)

Striatum
Morphine; Dopamine xanthine metabolism; Ascorbic acid; Uric acid; Release, in vivo (Enrico, P. (745) 173)

Motor behavior; Psychomotor stimulant; Amphetamine; Single unit recording; Rat (West, M.O. (745) 331)

Cocaine; Vesicular monoamine transporter; Human brain; Autoradiography (Staley, J.K. (747) 219)

Dopamine; Ischemia; Voltage-gated calcium channel; ω-Conotoxin GVIA; Neomycin; ω-Agatoxin IVA (Toner, C.C. (748) 85)

Angiotensin II; Dopamine; Haloperidol; Mouse; Receptor; Nucleus accumbens (Jenkins, T.A. (748) 137)

Neurotensin; Microdialysis; Dopamine; NMDA; Nucleus accumbens (Wagstaff, J.D. (748) 241)

D2 dopamine receptor; Acetylcholine release; Adenylate cyclase; Vesamicol; Dissociated neuron (Login, I.S. (749) 147)

Dopamine; Substantia nigra; Nociception; Central pain; Deafferentation pain; Parkinson's disease; Frontal lobe (Saadé, N.E. (751) 1)

Choline acetyltransferase; Parvalbumin; GABA; Septum; Diagonal band of Broca; Nucleus basalis; Alzheimer's disease (Gibbs, R.B. (753) 141)

6-Hydroxydopamine lesion; Dopamine release and uptake; Voltammetry; Nigrostriatal dopamine neuron; Electrical stimulation (Garris, P.A. (753) 225)

Putamen; Rat; Single unit recording; Electrophysiology; Somatotopy (Cho, J. (756) 241)

Acetylcholine release; Dopamine receptor; Neurokinin; 5-HT_2 receptor (Ramírez, M.J. (757) 17)

Extracellular dopamine level; Accumbens; D_3 receptor; Locomotor activity; PD128907; R-(+)-7-OH-DPAT; PD151328; Haloperidol; Amphetamine (De Boer, P. (758) 83)

Dopamine; Glutamate; Substantia nigra; MPTP; Neurodegeneration; Excitotoxicity; Drug screening (Kanthasamy, A.G. (759) 1)

Early-gene; Nucleus accumbens; Dopamine; A_{2A} receptors; Antipsychotic (Pinna, A. (759) 41)

Microdialysis; Extracellular glutamate (Shiraishi, M. (759) 221)

Serotonin; Stress; Microdialysis; Hippocampus; Corticosterone (Kirby, L.G. (760) 218)

Motor behavior; Psychomotor stimulant; Cocaine; Single unit recording; Rat (Pederson, C.L. (760) 261)

Radioligand assay; Autoradiography; In situ hybridization; Tolerance; Hippocampus; Cerebral cortex; Cerebellum (Johansson, B. (762) 153)

Δ^9-Tetrahydrocannabinol; Fos protein; Desensitization; Nucleus accumbens (Miyamoto, A. (763) 137)

3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; 5-Hydroxytryptamine; 5-Hydroxyindoleacetic acid; Nucleus accumbens (Irifune, M. (763) 281)

Dopamine; Hydrogen peroxide; Substantia nigra; Microdialysis; Cerebral ischemia; Rat (Lei, B. (764) 299)

Dopamine turnover; Caudate; Putamen; Monkey; Common marmoset; MPTP (Nomoto, M. (767) 235)

Aging; Ischemia; Preprotachykinin; Preproenkephalin; Polymerase chain reaction (Tohgi, H. (768) 86)

P-glycoprotein; Neurotoxicity; Methamphetamine; Methylenedioxymethamphetamine; Blood–brain barrier; Dopamine; Nucleus accumbens; Cancer (Mann, H. (769) 340)

Ethanol; Forskolin; DADLE; Cyclic AMP; δ-Opioid receptor (Shen, J. (770) 65)

Autoradiography; α_{2A}-Adrenoceptor; α_{2C}-Adrenoceptor; [^{3}H]MK912; Spinal cord (Uhlén, S. (770) 261)

Culture; Glutamate; L-DOPA; Neuroprotection; Neurotoxicity; Release (Maeda, T. (771) 159)

Methamphetamine; Heat shock protein; Dopamine; Body temperature; Hippocampus (Kuperman, D.I. (771) 221)

Alzheimer's disease; Huntington's disease; *N*-Acetylaspartylglutamate; Glutamate; Peptide; Microglia; Cerebral cortex (Passani, L.A. (772) 9)

Dopamine; Tyrosine hydroxylase; Malonate; Cell loss; Substantia nigra; Parkinson's disease (Sonsalla, P.K. (773) 223)

Dopamine; Electroconvulsive shock; Fractional release; Presynaptic mechanism (Passarelli, F. (774) 239)

Neocortex; Nitric oxide; Immunohistochemistry; Nitric oxide synthase; Perinatal asphyxia (Capani, F. (775) 11)

Synapse; Electron microscopy; Immunocytochemistry; Synaptic circuitry; Feed-forward inhibition; Nitric oxide (Morello, M. (776) 30)

Adenosine; Ethanol; Chloride; Rat (Meng, Z.-H. (776) 235)

Stria vascularis
Nitric oxide; Nitric oxide synthase (neuronal, endothelial, inducible); Hair cell; Spiral ganglion cell; Spiral ligament; Blood flow regulation; Neuromodulation (Gosepath, K. (747) 26)

Marginal cell; Fibrocyte; Spiral ligament; Bumetanide-sensitive Na-K-2Cl cotransporter (Goto, S. (765) 324)

Striosome
Dopamine D_1 receptor; Dopamine D_2 receptor; c-*fos*; Calbindin; A-77636; Quinpirole; Matrix; Immediate early gene (Wirtshafter, D. (771) 271)

Stroke
Cardiac susceptibility; Noise stress; Air-jet stimulation; Heart rate variability; Fast Fourier transformation (Cheung, R.T.F. (747) 181)

Cerebral ischemia; Middle cerebral artery; Cerebral blood flow; Laser-Doppler flowmetry; Rat (Soriano, M.A. (747) 273)

Adenovirus vector; Gene transfer; Ischemia; Interleukin-1 receptor antagonist (Yang, G.-Y. (751) 181)

Focal cerebral ischemia; Photothrombosis; Krypton laser; Rose bengal; Excitotoxicity (Yao, H. (753) 80)

Global ischemia; Apparent diffusion coefficient of brain water (ADCw); Hyperglycemia; MRI; Diffusion imaging (Huang, N.C. (757) 139)

l-Deprenyl; Cerebral ischemia; Neurodegeneration; Neuronal rescue; hsp70 mRNA (Lahtinen, H. (757) 260)

Nitric oxide; Nitric oxide synthase inhibition; Ischemia; Behavior; Rat (Stagliano, N.E. (759) 32)

Blood-brain barrier; Cerebral ischemia; Transfer constants; Permeability-area product; Sucrose; Inulin (Preston, E. (761) 4)

TDN-345; Cerebrovascular lesion; Stroke-prone spontaneously hypertensive rat; Local cerebral glucose utilization; Sensorimotor cortex; Locus coeruleus (Nakayama, T. (762) 203)

Cerebral ischemia; Oxidative metabolism; Baboon; Infarction; Reperfusion; Neuroprotection; Positron emission tomography (Touzani, O. (767) 17)

Thrombolysis; Neuroprotection; Eliprodil; rt-PA (Lekieffre, D. (776) 88)

Stroke-prone spontaneously hypertensive rat
Endothelin ET_A receptor; Endothelin ET_B receptor; Nitric oxide synthase; Cerebral apoplexy (Sakurai-Yamashita, Y. (756) 61)

TDN-345; Cerebrovascular lesion; Stroke; Local cerebral glucose utilization; Sensorimotor cortex; Locus coeruleus (Nakayama, T. (762) 203)

Str. radiatum
Alveus; Epilepsy; Muscarinic receptor; γ-Aminobutyric acid (GABA); Inhibition; Status epilepticus (Sayin, Ü. (758) 136)

Structure–activity relationship
Polyamine; Axotomy; Neurite regeneration; Cultured hippocampal neuron (Abe, K. (766) 281)

Strychnine
Circadian system; Suprachiasmatic nucleus; Entrainment; AMPA; *N*-Methyl-D-aspartate; Neuropeptide Y (Schmahl, C. (746) 151)

Substantia nigra; Taurine; γ-Aminobutyric acid (GABA); Glycine; Chloride channel; Bicuculline (Ye, G.-l. (749) 175)

Nitric oxide; N^{ω}-Nitro-L-arginine methylester; Pentylenetetrazole; Seizure; Mouse (Kaputlu, İ. (753) 98)

Glycine receptor; $GABA_A$ receptor; Bicuculline; Protein kinase A; Protein kinase C; G protein; Calcium (Tapia, J.C. (769) 203)

Verapamil; Flunarizine; Calcium channel; Epilepsy; Calcium antagonist (Straub, H. (773) 173)

Subacute lead exposure
NMDA receptor; Hippocampus; Cerebral cortex; Rat brain; Autoradiography; Blood lead; Brain lead (Ma, T. (760) 187)

Subarachnoid hemorrhage
Nitric oxide; Cerebral blood flow; Vasospasm; Cyclic GMP; Rat (Yamamoto, S. (757) 1)

Subarachnoid space
Prostaglandin; Sleep deprivation; Cerebrospinal fluid; Basal forebrain; Stress; Brain temperature; Conscious rat (Ram, A. (751) 81)

Subcellular fractionation
Motilin receptor; Synaptosome; Autoradiography (Depoortere, I. (777) 103)

Subcoeruleus nucleus
Brain–gut axis; Autonomic nervous system; Nucleus of the solitary tract; Area postrema; Stress (Mönnikes, H. (770) 277)

Subcommissural organ
Calcitonin; Brain; Reissner's fiber; Immunocytochemistry; Catfish *Clarias batrachus*; Frog *Rana tigrina*; Lizard *Caloter versicolor* (Subhedar, N. (751) 13)

Macrophage migration inhibitory factor; Tanycyte; Ependyma; Choroid plexus (Nishibori, M. (758) 259)

Subcortical visual pathway
Striate cortex; Extrastriate visual cortex; Calcium-binding protein; Visual system; Thalamus; Primate (Gutierrez, C. (765) 349)

Subdural haematoma
Apolipoprotein E; Injury; Brain; Rat; Immunohistochemistry; Immunoblotting (Horsburgh, K. (763) 103)

Subfornical organ
Calcium; Calcium receptor; Calcium sensing receptor; Parathyroid; G protein coupled receptor; Receptor localization; Fluid homeostasis; Ion homeostasis (Rogers, K.V. (744) 47)

Fos; Drinking; Organum vasculosum of the lamina terminalis; AT_1 antagonist; Angiotensin; Converting enzyme inhibitors (McKinley, M.J. (747) 43)

Nucleus of the solitary tract; Noradrenergic pathway; Phentolamine; Timolol; Microiontophoresis; Hemorrhage; Baroreceptor activation; Rat (Tanaka, J. (777) 237)

Subiculum
Hippocampus; Operant learning; Electrolytic lesion; Ibotenic acid lesion; Acquisition; Retention (Govindaiah, (745) 121)

CA3; CA2; Presubiculum; Psychosis; Pyramidal; Nonpyramidal; Neuroleptics (Benes, F.M. (755) 121)

Retrohippocampal area; Hippocampus; Burst (Stewart, M. (769) 71)

Intracellular recording; Bursting cell; Regular firing cell; $GABA_A$; $GABA_B$; NMDA; AMPA; 5-HT (Behr, J. (773) 217)

Subnucleus reticularis dorsalis
Inflammation; Naloxone; Analgesia (Tsuruoka, M. (762) 264)

Subordinate
Serotonin; 5-HT; 5-HIAA; Dopamine; DA; Dominant; Lizard; Reptile; *Anolis carolinensis* (Summers, T.R. (767) 272)

Substance P
N-Methyl-D-aspartate receptor; $Neurokinin_1$ receptor; Protein kinase C; Glycine; Dorsal horn (Heppenstall, P.A. (744) 235)

Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Neuropeptide; FMRFamide; Central nervous system; Sensory afferents; Chemoreception; Immunocytochemistry; Arthropod (Schmidt, M. (746) 71)

Dynorphin; Enkephalin; Scopolamine; Oxotremorine; Caudoputamen; Accumbens; Behavior (Wang, J.Q. (748) 62)

Pituitary adenylate cyclase activating polypeptide; Intermediolateral cell column; Glutamate; Vasoactive intestinal polypeptide; Sympathetic preganglionic neuron (Lai, C.C. (748) 189)

Immunocytochemistry; Dopamine; FMRFamide; Brain; Crustacean; Olfaction (Schmidt, M. (752) 15)

Nucleus tractus solitarius; Caudal ventrolateral medulla; Retrograde tracing; Immunohistochemistry; Electron microscopy; Rat (Kawano, H. (754) 315)

Antinociception; *N*-methyl-D-aspartate; Naloxone; Opioid; Capsaicin; Intrathecal administration; Spinal cord (Masuyama, T. (759) 241)

Adenosine; Morphine; Spinal cord (Cahill, C.M. (760) 294)

Spinal cord; Somatosensory; Nociception; Tachykinin (King, A.E. (767) 55)

NMDA receptor; Dorsal horn; Primary afferent; Nociception; Pain (Aicher, S.A. (772) 71)

Push–pull perfusion; Vagus nerve; Somatostatin; Calcitonin gene-related peptide; Neurotensin; Cholecystokinin (Saleh, T.M. (778) 56)

Cerebellum; Purkinje cell; Immunohistochemistry; Gerbil (Kang, T.-C. (778) 397)

Substance P analog
Trigemino-hypoglossal reflex; Cerebral ventricle (Zubrzycka, M. (753) 128)

Substantia innominata
Ventral pallidum; GABA; Dopamine; Anterograde tracing; *Phaseolus vulgaris*-leucoagglutinin (Gaykema, R.P.A. (747) 173)

Substantia nigra
Single-unit recording; Dopamine; Cocaine; SCH 23390; Apomorphine; Ventral tegmental area (Lee, T.H. (744) 293)

Adenosine triphosphate (ATP)-sensitive potassium channel; Glibenclamide; Glucose; Hypothalamus; Locus coeruleus; Neurotoxin; Dopamine; Norepinephrine; Serotonin; γ-Aminobutyric acid (GABA) (Dunn-Meynell, A.A. (745) 1)

Transferrin receptor; Iron; Ventral tegmental area; Parkinson's disease; Oxidative stress; Cell death; Autoradiography (Faucheux, B.A. (749) 170)

Taurine; γ-Aminobutyric acid (GABA); Glycine; Chloride channel; Bicuculline; Strychnine (Ye, G.-l. (749) 175)

Dopamine; Striatum; Nociception; Central pain; Deafferentation pain; Parkinson's disease; Frontal lobe (Saadé, N.E. (751) 1)

Limbic seizure; Wet-dog shake; Dopamine toxicity; Fos (Fan, X.D. (751) 31)

Mitochondrion; Parkinson's; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Basal ganglion; Complex I; NADPH-diaphorase (Ferrante, R.J. (753) 157)

Dopamine; Glutamate; Striatum; MPTP; Neurodegeneration; Excitotoxicity; Drug screening (Kanthasamy, A.G. (759) 1)

MPTP; Parkinson's disease; Thalamus; Neuronal degeneration; Mice; Fluoro-Jade (Freyaldenhoven, T.E. (759) 9)

Dopamine; Hydrogen peroxide; Microdialysis; Cerebral ischemia; Striatum; Rat (Lei, B. (764) 299)

Serotonin; Microdialysis (Thorré, K. (772) 29)

Microdialysis; Dopamine release; 1-Methyl-4-phenylpyridinium; Iron chelator; Rat (Matarredona, E.R. (773) 76)

Dopamine; Tyrosine hydroxylase; Malonate; Cell loss; Striatum; Parkinson's disease (Sonsalla, P.K. (773) 223)

Autoradiography; Ischemia; Mouse; Middle cerebral artery; Nitric oxide synthase; Protein kinase C (Hara, H. (774) 69)

Parkinson's disease; Catecholamine; Hindered amine; Anti-oxidant (Masalha, R. (774) 260)

Apoptosis; In situ end labeling; Lewy body; Parkinson's disease; Diffuse Lewy body disease; Neurodegeneration (Tompkins, M.M. (775) 24)

Dopamine; Catalepsy; *N*-Methyl-D-aspartate receptor; Corpus striatum (Özer, H. (777) 51)

6-Hydroxydopamine; Recovery; Regeneration; Neurotrophic factor; Dopaminergic neuron; Neurodegeneration; Direct gene transfer; Dopamine turnover (Lapchak, P.A. (777) 153)

Weaver; Thalamus; Cerebellum; In situ hybridization; K_{IR} channel (Chen, S.-C. (778) 251)

Substantia nigra pars reticulata
ATP-sensitive potassium channel; Diazoxide; Glibenclamide; Rat (Ye, G.L. (753) 1)

Parvicellular reticular formation; Motor trigeminal nucleus; Monosynaptic contact; Rat (Yasui, Y. (775) 219)

Substantia nigra ventral tegmental area
Frontal cortex; Thymus; CD4 and CD8 T-cells; Prolactin (Gaufo, G.O. (756) 191)

129 substrain
B6; Behavior; Embryonic stem cell; Null-mutant mouse; Genetic background (Montkowski, A. (762) 12)

Subterritory
Extracellular recording; Single neuron; Nucleus accumbens; Shell; Core; Rat; Cocaine; Intravenous self-administration (Uzwiak, A.J. (767) 363)

Subthalamic nucleus
Metabotropic glutamate receptor; (*S,R*)-Dihydroxyphenylglycine; Brain slice; (+)-α-Methyl-4-carboxyphenylglycine; Excitation (Abbott, A. (766) 162)

Subthalamus
Dopaminergic system; Biocytin; Fluoro-gold; Rat; Tyrosine hydroxylase (Hassani, O.-K. (749) 88)

Sucrose
Behavioral experiment; Chorda tympani nerve; Monellin; Taste cell; Thaumatin (Tonosaki, K. (748) 234)

Blood-brain barrier; Cerebral ischemia; Stroke; Transfer constants; Permeability-area product; Inulin (Preston, E. (761) 4)

Chorda tympani; Mixture; Quinine; Taste; Suppression (Formaker, B.K. (772) 239)

Sucrose stimulation
Synaptic vesicle; Quantal release; Morphometry; Exocytosis; Endocytosis; Vesicle hypothesis; Acetylcholine; *Torpedo* electric organ; KCl stimulation (Fox, G.Q. (755) 47)

Suicide
Interferon-α; Dopamine; Turnover; Parkinsonism; Depression (Shuto, H. (747) 348)

Dopamine D_1 receptor binding site; Dopamine D_2 receptor binding site; Depression; Postmortem brain tissue; Antidepressant drug; Neuroleptic (Bowden, C. (752) 227)

α_1-Adrenoceptor; α_2-Adrenoceptor; α_1-Adrenoceptor subtype; α_2-Adrenoceptor subtype; Post-mortem human brain; Depression; Antidepressant drug (De Paermentier, F. (757) 60)

cAMP-dependent protein kinase; [^{3}H]cAMP binding; Post-mortem brain tissue; Depression; Antidepressant drugs; Cerebral cortex; Hippocampus; Amygdala (Lowther, S. (758) 223)

Dopamine; Homovanillic acid; DOPAC; Depression; Post-mortem brain tissue; Antidepressant drug; Basal ganglia (Bowden, C. (769) 135)

Sulfatase
Acetylcholine; Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Memory; Neurosteroid; Steroid (Rhodes, M.E. (773) 28)

Sulfated glycoprotein 2 (SGP-2)
Estradiol neurotoxicity; β-Endorphin; Medial preoptic area (MPOA); Deafferentation; Clusterin (Wener, K.M. (745) 37)

Sulfhydryl
N-Methyl-D-aspartate; Rat cerebral cortex; Tissue culture; Glutamate; Neurotoxicity (Sinor, J.D. (747) 297)

Sulfonylurea
Obesity; Glucose; ATP sensitive K^+ channel; Diet induced obesity; Diabetes (Levin, B.E. (776) 146)

Sulpiride
Rapid eye movement sleep; SCH 23390; Nigro-striatal lesion; Dopamine receptor (Durán-Vázquez, A. (744) 171)

(±)-Sulpiride
Self-mutilating behavior; *d*-Amphetamine; *R*(+)-SCH-23390; Haloperidol; Dopamine; Rat (Lara-Lemus, A. (770) 60)

Sumatriptan
Migraine; Nucleus trigeminal caudalis; Blood flow (McCall, R.B. (775) 189)

Superior cervical ganglia
Norepinephrine transporter; Tyrosine hydroxylase; Leukemia inhibitory factor; Ciliary neurotrophic factor; Retinoic acid; PC12 cell (Matsuoka, I. (776) 181)

Superior cervical ganglion
Pineal gland; Ganglionectomy; Deep pineal; Lamina intercalaris; Intergeniculate leaflet (Bartol, I. (744) 77)

Cerebral artery; Tryptophan hydroxylase (Moreno, M.J. (749) 161)

γ-Aminobutyric acid (GABA); GABA receptors; Picrotoxin; Inhibition; Synaptic plasticity; Long-term potentiation (González Burgos, G.R. (751) 148)

Stellate ganglion; Prevertebral ganglion; Myenteric ganglion; Dorsal root ganglion (Dun, N.J. (760) 8)

Nerve regeneration; Sympathetic ganglia; Explant culture; Neuropeptide; Neuropeptide expression; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Axotomy; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Superior colliculus
Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Suprachiasmatic nucleus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein; Synaptophysin (Li, G. (751) 265)

Orofacial motor cortex; Parvicellular reticular formation; Orofacial movement; Rat (Tsumori, T. (755) 151)

Brainstem; Afferent connections; Topographic projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (755) 279)

Adenosine; Adenosine deaminase inhibitor; A_1 and A_{2A} adenosine receptor; Neurotransmission (Ishikawa, S. (757) 268)

γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Inhibition; Paired-pulse depression; Short-term plasticity; Transmitter release (Platt, B. (777) 131)

Superior laryngeal nerve
Insular cortex; Chorda tympani; Glossopharyngeal nerve; Convergence; Rat (Hanamori, T. (763) 267)

Superior mesenteric ganglion
Uterus; Retrograde tracing; Sympathetic chain; Inferior mesenteric ganglion; Rat (Vera, P.L. (747) 140)

Superior salivatory nucleus
Pterygopalatine ganglion; Glutamate; γ-Aminobutyric acid; Glycine receptor; Immunohistochemistry; Cholera toxin B subunit; Wheat germ agglutinin conjugated horseradish peroxidase (Kobayashi, M. (766) 72)

Superoxide anion
Nitric oxide; Rat; Acetylcholine; Bradykinin; Nitroglycerin; Brain; Oxygen radical (Mayhan, W.G. (760) 204)

Superoxide anion radical
Alzheimer's disease; Apoptosis; Diethyldithiocarbamate; Dihydrorhodamine; Hippocampal neuron; 4-Hydroxynonenal; Lipid peroxidation; Mitochondrial transmembrane potential; Neurotrophic factor; Ouabain (Mark, R.J. (756) 205)

Superoxide dismutase
Blood-brain barrier; Cerebral ischemia; Free radical; Polyamine; Hippocampus; Rat (Wengenack, T.M. (754) 46)

Reactive oxygen species; Mitochondrial metabolic activity; Lipid peroxidation; Excitotoxicity; Neuron degeneration; Catalase; Glutathione peroxidase (Azbill, R.D. (765) 283)

Blood-brain barrier; Blood-nerve barrier; Catalase; Polyamine; Putrescine; Free radical (Wengenack, T.M. (767) 128)

Hydrogen peroxide; Catalase; Cytotoxicity (Mann, H. (770) 163)

Superoxide radical
β-Amyloid; Alzheimer's disease; Cytotoxicity; Endothelial cell; Intracellular calcium (Suo, Z. (762) 144)

Supersensitivity
MPTP; Immediate-early gene; *Zif*268; Parkinson's disease; D1 and D2 dopamine receptor (Smith, T.S. (765) 189)

Supplementary motor area
Transcranial magnetic brain stimulation; Simple reaction time; Silent period; Motor cortex; Spinal motoneuron excitability; F wave; Human (Ziemann, U. (744) 32)

Suppression
Cytochrome *P*-450; Sex steroid; Testosterone; Progesterone; Competitive polymerase chain reaction; Induction (Baum, L.O. (765) 67)

Chorda tympani; Mixture; Quinine; Sucrose; Taste (Formaker, B.K. (772) 239)

Suprachiasmatic
Bombesin; Gastrin-releasing peptide; Neuromedin C; Periventricular; Whole-cell; Potassium conductance; Non-specific conductance (Reynolds, T. (750) 67)

Suprachiasmatic nucleus
Brain slice; Calcium; Current–voltage relationship; Magnesium; *N*-methyl-D-aspartic acid; Surface charge; Whole-cell current (Alberi, S. (745) 55)

Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Supraoptic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Circadian system; Entrainment; AMPA; *N*-Methyl-D-aspartate; Neuropeptide Y; Strychnine (Schmahl, C. (746) 151)

Hypothalamus; Paraventricular nucleus; Vasoactive intestinal polypeptide; Spinal cord; Light; Melatonin (Teclemariam-Mesbah, R. (748) 71)

Circadian system; Multiunit recording; In vivo; In vitro; Neurophysiology; Photic; Nonphotic (Meijer, J.H. (753) 322)

Median raphe; Circadian rhythm; Serotonin; Locomotor activity; Entrainment (Meyer-Bernstein, E.L. (755) 112)

Arg-vasopressin; γ-Aminobutyric acid; Slice culture (Isobe, Y. (755) 213)

5-HT_7; 5-HT_{1A}; Agonist; Antagonist; Serotonin; Hippocampus; Cerebellum; Light; Entrainment; Photic response (Ying, S.-W. (755) 246)

Glutamate receptor; Immunocytochemistry; Intergeniculate leaflet (Stamp, J.A. (756) 215)

NGFI-A; Vasoactive intestinal peptide; c-*fos*; Rat (Tanaka, M. (756) 305)

Circadian rhythm; Pacemaker; Planar electrode array (Herzog, E.D. (757) 285)

Corticosterone; ACTH; Adrenal cortex; Circadian; Stress; Paraventricular nucleus (Buijs, R.M. (758) 229)

Circadian; GABA; Vasoactive intestinal peptide; Peptide histidine isoleucine; Gastrin-releasing peptide; Hamster (Gillespie, C.F. (759) 181)

Entrainment; Circadian rhythm; Wheel running; Non-photic zeitgeber; Food restriction (Marchant, E.G. (765) 273)

Serotonin; Quipazine; Circadian rhythm; Fos (Moyer, R.W. (765) 337)

Circadian rhythm; Brain slice; Whole-cell patch-clamp; H-current; Spontaneous firing; Spike afterhyperpolarization (De Jeu, M.T.G. (767) 72)

Non-photic; Entrainment; Serotonin; Circadian rhythm; Mouse; Activity feedback; c-*fos*; 5,7-Dihydroxytryptamine (Bradbury, M.J. (768) 125)

Cytochrome oxidase; Quantitative histochemistry; Rat (López, L. (769) 367)

Retinohypothalamic tract; Retinal ganglion cell; Hypothalamus; Lateral hypothalamic area; FluoroGold; Circadian rhythm (Leak, R.K. (770) 105)

Circadian rhythm; Food entrainment; Immediate early gene; Intergeniculate leaflet; Paraventricular thalamic nucleus (Challet, E. (770) 228)

Neuropeptide Y; γ-Aminobutyric acid; $GABA_A$; Tetrodotoxin; Circadian rhythm (Huhman, K.L. (772) 176)

Supraependymal neuronal complex
Serotonin; Intraventricular nerves; Pituitary gland (Cloft, H.J. (761) 210)

Supraoptic nucleus
Corticotropin-releasing factor; Ethanol; Paraventricular nucleus; Hypothalamic-pituitary-adrenal axis; Amygdala (Ogilvie, K.M. (744) 83)

Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Vasoactive intestinal polypeptide (Reuss, S. (745) 197)

Immunocytochemistry; Immediate early gene; Transcription factor; Vasopressin; Oxytocin; Osmotic stimulation; Stress (Wang, K. (746) 117)

CRF antagonist; Fos; Paraventricular nucleus of the hypothalamus; Capsaicin; Abdominal surgery; Nucleus tractus solitarii (Bonaz, B. (748) 12)

Immunocytochemistry; Angiotensin receptor; Paraventricular nucleus; Confocal microscopy; Cytoplasmic staining; Rat (Pfister, J. (754) 307)

Oxytocin neuron; Vasopressin neuron; Glutamate receptor; NMDA; AMPA (Richardson, C.M. (767) 158)

Lithium; Arginine vasopressin; Paraventricular nucleus; In situ hybridization; Rat (Anai, H. (772) 161)

Supraspinal
Neural plasticity; Dorsal horn; Receptive field; Cat (Garrison, D.W. (762) 228)

Suramin
IGF-II; SH-SY5Y; Neuroblastoma; Autocrine (Sullivan, K.A. (744) 199)

Surface charge
Brain slice; Calcium; Current–voltage relationship; Magnesium; *N*-methyl-D-aspartic acid; Suprachiasmatic nucleus; Whole-cell current (Alberi, S. (745) 55)

Survival analysis
Shaker K^+ channel; Single channel gating kinetics; Shaker S4 region; Multiple regression analysis; Generalized gamma model (Shao, X.M. (770) 96)

Survival rate
Brain injury; Convulsion; Lidocaine; Local anaesthetic; Mouse (Endoh, H. (767) 136)

Swallowing
Abdominal muscle; Diaphragm; Upper airway; Vomiting; Ventral respiratory group (Umezaki, T. (769) 347)

Swedish mutation
Alzheimer's disease; β-Secretase; Cathepsin D; Acidic protease; Recombinant βAPP; FCA18 antibody (Chevallier, N. (750) 11)

Swelling
Excitotoxicity; Histamine; Infrared differential interference contrast videomicroscopy; Neostriatum; NMDA (Colwell, C.S. (766) 205)

Swimming
Midbrain locomotor region; Teleost; Electrical stimulation; Chemical stimulation (Uematsu, K. (773) 1)

Swimming navigation
Amyloid precursor protein; Gene targeting; Mouse; Genetic strain (Wolfer, D.P. (771) 1)

Swim stress
Bicuculline-induced convulsion; Sex difference; Handling stress; Flumazenil; Diazepam; Rat (Peričić, D. (752) 279)

Sympathectomy
Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Sympathetic neuron; Superior cervical ganglion; Axotomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Sympathetic
Phenylephrine; Sodium nitroprusside; Lidocaine; Parasympathetic; Baroreflex sensitivity (Saleh, T.M. (767) 201)

Sympathetic afferent
Spinal cord; Immediate early gene; Renorenal reflex; Visceral pain; Kidney (Fitch, G.K. (753) 340)

Sympathetic chain
Uterus; Retrograde tracing; Superior mesenteric ganglion; Inferior mesenteric ganglion; Rat (Vera, P.L. (747) 140)

Sympathetic column
Splanchnic nerve; Spinal cord; Fluorogold; Corticotropin releasing hormone; Adrenal (Li, C. (767) 87)

Sympathetic ganglia
Neuroaxonal dystrophy; Neurofilament; Peripherin (Schmidt, R.E. (769) 375)

Nerve regeneration; Explant culture; Superior cervical ganglion; Neuropeptide; Neuropeptide expression; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor (Moller, K. (775) 156)

Sympathetic nerve
Paraventricular nucleus; Stress ulcer; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Vagus (Zhang, J.-F. (761) 203)

Sympathetic nerve activity
Cardiopulmonary vagal reflex; Blood pressure; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Lateral tegmental field; Raphe nuclei; Nucleus tractus solitarii (Vayssettes-Courchay, C. (744) 272)

Spinal cord injury; Sensory afferent; Rat; c-*fos* gene (Ruggiero, D.A. (763) 21)

Sympathetic nerve discharge
Spinal cord injury; Neonate; Immediate-early response gene (Ruggiero, D.A. (759) 301)

Respiration; Spinal cord injury; Neonate (Sica, A.L. (767) 380)

Medullary neuron; Correlation; Coherence; 8- to 13-Hz rhythm; Rostral para-ambiguual field; Rostral caudal ventrolateral medulla (Dempesy, C.W. (768) 102)

Sympathetic nervous system
c-Fos; Cholera toxin; Diet-induced obesity (Dunn-Meynell, A.A. (748) 100)

Baroreceptor reflex pathway; Commissural nucleus; Vagus; Central cardiovascular reflex pathway (Ciriello, J. (749) 35)

Ventrolateral medulla; Blood pressure; Dahl salt-sensitive rat; Excitatory amino acid; Glutamate receptor (Tsuchihashi, T. (750) 195)

Kidney; Osmoregulation; Visceral receptor; Autonomic nervous system; Circumventricular organ; Limbic system; Cardiovascular regulation (Solano-Flores, L.P. (753) 102)

Nitric oxide; L-NAME; NOC 18; Medulla oblongata; Rat; L-Arginine; Arterial pressure (Kagiyama, S. (757) 155)

Blood pressure; Medullospinal pathway; Midbrain (Lam, W. (757) 191)

Neuropeptide; Excitatory amino acid; Spinal cord (Beyaert, C.A. (759) 175)

Nitric oxide; Cat; Guinea-pig; Hamster; Mouse; Rabbit; Rat (Zanzinger, J. (764) 265)

Arterial pressure; Ventrolateral medullum; Angiotensin; Losartan; Rabbit (Hirooka, Y. (772) 107)

Sympathetic neuron
Neuropeptide; Pituitary adenylate cyclase activating peptide; Pituitary adenylate cyclase activating peptide receptor; Galanin; Superior cervical ganglion; Axotomy; Sympathectomy; Nerve regeneration; Peptide regulation (Moller, K. (775) 166)

Sympathetic neurotransmitter
Dopamine; Dopamine β-hydroxylase; Spleen; Neuroimmunomodulation; Stress (Bencsics, A. (761) 236)

Sympathetic pain
C-fiber; Polymodal nociceptor; α_2-Adrenoceptor; Causalgia; Sympathetic stimulation; Epinephrine; Nerve injury (O'Halloran, K.D. (759) 233)

Sympathetic preganglionic neuron
Pituitary adenylate cyclase activating polypeptide; Intermediolateral cell column; Substance P; Glutamate; Vasoactive intestinal polypeptide (Lai, C.C. (748) 189)

Electron microscopy; Confocal microscopy; Synaptic transmission; Volume transmission (Pollock, R. (777) 22)

Sympathetic sprouting
Immunohistochemistry; Mechanical allodynia; Peripheral nerve injury; Sensory ganglion; Tyrosine hydroxylase; Ultrastructure (Chung, K. (751) 275)

Sympathetic stimulation
C-fiber; Polymodal nociceptor; α_2-Adrenoceptor; Causalgia; Sympathetic pain; Epinephrine; Nerve injury (O'Halloran, K.D. (759) 233)

Sympathetic topography
Small intestine; Tract-tracer; β-Galactosidase; Autonomic anatomy (Mabon, P.J. (753) 245)

Sympatho-excitation
Excitatory amino acid receptor; Phosphonovaleric acid; Cardiovascular regulation; Cardiovagal excitation; Autonomic regulation (Colombari, E. (749) 209)

Synapse
Axo-axonic; Inhibition; Trigeminal motor nucleus; Parvocellular reticular nucleus; Peritrigeminal nucleus; Immunogold; Electron microscopy (Yang, H.-W. (749) 301)

Avian brain; Limbic striatum; Electron microscopy; GABA; Glutamate (Csillag, A. (750) 171)

Positron emission tomography; Blindness; Oxygen metabolism; Visual cortex; Plasticity (De Volder, A.G. (750) 235)

ApoE-deficient mouse; Neurotrophic; Neurodegeneration; Alzheimer's disease (Masliah, E. (751) 307)

Basement membrane; Blood vessel; Central nervous system; Extracellular matrix; Hippocampus; Limbic; Tanycyte (Hagg, T. (764) 17)

Merosin; Synaptogenesis; Basement membrane; Hippocampus; Brain; Regeneration; Lesion; Rat; Rabbit; Pig (Tian, M. (764) 28)

Prostaglandin I_2 analog; Brain ischemia; Passive avoidance task; Delayed neuronal death; Gerbil (Matsuda, S. (769) 321)

Calcium-induced calcium release; Presynaptic bouton; Calcium channel; Purkinje neuron; Endoplasmic reticulum (Ouyang, Y. (775) 52)

Striatum; Electron microscopy; Immunocytochemistry; Synaptic circuitry; Feed-forward inhibition; Nitric oxide (Morello, M. (776) 30)

Synaptic adhesion
Long-term potentiation; LTP; NCAM; AMPA; NMDA; Sialic acid; Binding (Hoffman, K.B. (753) 309)

Synaptic blockade
Basal forebrain; Broca; Diagonal band; In vitro; Microwire; Rat; Sleep; Thermoregulation; Thermosensitivity (Hays, T. (746) 52)

Synaptic circuitry
Striatum; Synapse; Electron microscopy; Immunocytochemistry; Feed-forward inhibition; Nitric oxide (Morello, M. (776) 30)

Synaptic current
Hypertonia; Osmotic effect; Cell volume; Perforated patch clamp; Whole-cell patch clamp; Ion channel; Voltage-gated current; Excitatory postsynaptic current; Freshly isolated cell (Huang, R. (748) 157)

Synaptic function
Lactate; Hypoxia; Glial–neuronal shuttle; Fluorocitrate; Hippocampal slice (Schurr, A. (774) 221)

Synaptic inhibition
Endogenous 5-HT; Modulation; In vivo analysis (Lalley, P.M. (747) 156)

Interleukin-1β; Pyramidal cell granule cell; Intracellular recording; Hippocampus; Slice preparation (Zeise, M.L. (768) 341)

Synaptic mitochondrion
Aging; Protein carbonyl; Thiol; Antioxidant (Banaclocha, M.M. (762) 256)

Synaptic plasticity
Neural cell adhesion molecule; Brain; Heparan sulfate; Proteoglycan; Immunocytochemistry (Fuxe, K. (746) 25)

Postsynaptic protein; Protein kinase C substrate; Hippocampus; Learning and memory; Calmodulin (Chen, S.-J. (749) 181)

Superior cervical ganglion; γ-Aminobutyric acid (GABA); GABA receptors; Picrotoxin; Inhibition; Long-term potentiation (González Burgos, G.R. (751) 148)

Dentate gyrus; Applied field; Paired-pulse facilitation; Action potential (Foster, B. (758) 59)

Proline; Long-term potentiation; Hippocampus; NMDA receptor; Paired-pulse facilitation; Hyperprolinemia (Cohen, S.M. (761) 271)

Rat; Microtubule associated protein; Glutamate receptor; NMDA; APV (Sánchez, C. (765) 141)

Proline; Hippocampus; Glutamate; Aspartate; Transmitter release; Paired pulse facilitation; Hyperprolinemia (Cohen, S.M. (769) 333)

Estradiol; LTP; CA1; Memory; Stratum radiatum; Freely moving rats (Córdoba Montoya, D.A. (778) 430)

Synaptic reorganization
Prion protein; Hippocampus; PrP-null; Mossy fibre sprouting (Colling, S.B. (755) 28)

Temporal lobe epilepsy; Fimbria/fornix; Perforant path; Hippocampus; Seizure (Mohapel, P. (778) 186)

Synaptic transmission
NO; Fish; Neuronal messenger; Central nervous system; Electron microscopy; Confocal laser scanning microscopy (Holmqvist, B. (745) 67)

Aging; Hippocampus; Field potential; Calcium channel type; Conotoxin; Agatoxin (Hall, S.C. (745) 339)

Long-term potentiation; Purinoceptor; Adenosine A_{2b} receptor; Excitatory post-synaptic potential (Kessey, K. (756) 184)

Rat; Cerebral cortical neuron; Cell culture; Calcium current; ω-Agatoxin-TK; Voltage-clamp (Teramoto, T. (756) 225)

Long-term potentiation; Melatonin; *N*-Methyl-D-aspartate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; CA1; Hippocampus (Collins, D.R. (767) 162)

Cytoplasmic calcium ($[Ca^{2+}]_i$); Calcium ion channel; Potassium ion channel; Oscillation; Glutamate receptor; GABA receptor; Neuronal network (Wang, X.-s. (767) 239)

Hippocampal slice; Benzodiazepine; Midazolam; Intracellular recording; Rat (Sato, Y. (773) 98)

Sympathetic preganglionic neuron; Electron microscopy; Confocal microscopy; Volume transmission (Pollock, R. (777) 22)

Synaptic vesicle
Rat; Hippocampus; Acetate; Acetylcholine; Acetyl CoA synthetase; Vesamicol (Carroll, P.T. (753) 47)

Quantal release; Morphometry; Exocytosis; Endocytosis; Vesicle hypothesis; Acetylcholine; *Torpedo* electric organ; KCl stimulation; Sucrose stimulation (Fox, G.Q. (755) 47)

Synaptobrevin
Bradykinin; Astrocyte; Glutamate release; Clostridial neurotoxin; SNAP-25; Syntaxin; Rat (Jeftinija, S.D. (750) 41)

Synaptogenesis
Opioid receptor; Long-term potentiation; Mossy fiber-CA3; Timm's stain; Hippocampus (Escobar, M.L. (751) 330)

Plasticity; Transplant; Hippocampus; Dentate gyrus; Deafferentation; Sprouting; Reinnervation (Field, P.M. (751) 352)

Serotonin; S-100β; Learning/memory; Parachlorophenylalanine; Schizophrenia; Hippocampus (Mazer, C. (760) 68)

Microculture; Autapse; Glutamatergic transmission; Serum-free culture; cAMP; Protein kinase A (Leßmann, V. (763) 111)

Merosin; Synapse; Basement membrane; Hippocampus; Brain; Regeneration; Lesion; Rat; Rabbit; Pig (Tian, M. (764) 28)

Synaptophysin
Prion; Prion disease; Prion protein; Gene sequence; Molecular sequence data; Exon; Gene expression; Hamster; Superior colliculus; Inferior colliculus; Hippocampus; Scrapie; Glial fibrillary acidic protein (Li, G. (751) 265)

Mouse; Transgenic; Plasticity; Spatial learning; GAP43; Morris water maze; Entorhinal cortex lesion (Hardman, R. (758) 187)

Synaptosome
Arachidonic acid; Hippocampus; Amino acid; Uptake carrier; Exocytosis; Protein kinase C (Breukel, A.I.M. (773) 90)

Motilin receptor; Autoradiography; Subcellular fractionation (Depoortere, I. (777) 103)

Synergy
Irritant; Spice; Black pepper; Chemosensitivity; Capsaicin; Proton; Antagonist; Whole-cell patch-clamp; Vanilloid (Martenson, M.E. (761) 71)

Syntaxin
Bradykinin; Astrocyte; Glutamate release; Synaptobrevin; Clostridial neurotoxin; SNAP-25; Rat (Jeftinija, S.D. (750) 41)

Synthesis of neuroactive 3α HP
Pituitary; Neurosteroid synthesis; 3α-Hydroxy-4-pregnen-20-one (3α HP) synthesis and metabolism; 3α HP; Steroidogenic pathway; Allopregnanolone synthesis from 3α HP (Wiebe, J.P. (764) 158)

Synthetic peptide
Apolipoprotein E; Endocytosis; Receptor associated protein; Cytoplasmic calcium; $[Ca^{2+}]_i$; Neuron (Wang, X.-s. (778) 6)

Syrian golden hamster
Circadian entrainment; Cone opsin; Immunocytochemistry; *Mesocricetus auratus*; Phase shift assay; RNA (Von Schantz, M. (770) 131)

Syrian hamster
Circadian; Rhythm; Clock; Melatonin; Agonist; Mice (Van Reeth, O. (762) 185)

Systemic amyloidosis
Alzheimer's disease; Amyloid β-protein; Amyloid β-protein precursor; Amyloid angiopathy; Choroid plexus; Immunohistochemistry (Sasaki, A. (755) 193)

T

Tachykinin
Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Neurokinin A; Flexor reflex; Spinal cord (Jia, Y.-p. (751) 169)

Nociception; Pain; C fiber; A-delta; Thermal; RIA (Zachariou, V. (752) 143)

Spinal cord; Somatosensory; Nociception; Substance P (King, A.E. (767) 55)

Tacrine
SN56 neuronal cell line; Calcium imaging; Calcium channels; Intracellular calcium; Acetylcholinesterase; Neurons in culture (Doležal, V. (769) 219)

Tactile
Bird; Dorsal column–medial lemniscal pathway (Wild, J.M. (759) 122)

Primary somatosensory cortex; Sensory modulation; Receptive field; Movement; Cutaneous (Courtemanche, R. (777) 170)

Tactile representation
Avian; Parrot; Nucleus basalis; Somatosensory (Wild, J.M. (755) 137)

Tail-flick
Antinociception; Analgesia; Anterior pretectal nucleus; Opioid agonist; Serotonergic agonist (Mamede Rosa, M.L.N. (757) 133)

Spinal cord; Regional heterogeneity; Paw withdrawal; Forepaw; Hind paw (Kusmirek, J. (767) 375)

Tail-flick assay
Excitatory opioid receptor antagonist; Naltrexone; Etorphine; Opioid tolerance and dependence; Withdrawal jumping assay (Shen, K.-F. (757) 176)

Tail-flick latency
Antinociception; Carbachol; Glibenclamide; Atropine; Naloxone; Rat (Kang, Y.-m. (761) 342)

Tandospirone
Serotonin agonist; Serotonin antagonist; Locus coeruleus; Ipsapirone; Noradrenaline (Hamamura, T. (759) 156)

Tangle
Neurofibrillary degeneration; Amyloid; Alzheimer's disease; Aging (Cebrián, J.L. (769) 173)

Tanycyte
Galanin; Autoradiography; Immunocytochemistry; Median eminence; Electron microscopy; Nerve ending; Guinea pig (Dutriez, I. (753) 36)

Macrophage migration inhibitory factor; Ependyma; Choroid plexus; Subcommissural organ (Nishibori, M. (758) 259)

Basement membrane; Blood vessel; Central nervous system; Extracellular matrix; Hippocampus; Limbic; Synapse (Hagg, T. (764) 17)

Tardive dyskinesia
Partial agonist; Schizophrenia; Antipsychotic; Neuroleptic; *N*-Methyl-D-aspartate; Glutamate (Lidsky, T.I. (764) 46)

Taste
Bitter; Alkaloid; Chorda tympani; Glossopharyngeal; Multi-Dimensional Scaling (Dahl, M. (756) 22)

Parabrachial nucleus of the pons; Nucleus of the solitary tract; Electrophysiology; Neural code; Rat (Di Lorenzo, P.M. (763) 167)

Electrophysiology; Mixture; Quinine; Amino acid; Catfish; Facial nerve (Ogawa, K. (769) 263)

Chorda tympani; Mixture; Quinine; Sucrose; Suppression (Formaker, B.K. (772) 239)

Taste cell
Behavioral experiment; Chorda tympani nerve; Monellin; Sucrose; Thaumatin (Tonosaki, K. (748) 234)

Tau
Clathrin coated vesicle; Apolipoprotein E isoform; β-Amyloid; βA4 conjugate; βA4 oligomers/aggregates; Dimyristoyl phosphatidylcholine liposome (Berg, M.J. (752) 72)

Tau dephosphorylation
Menadione; Oxidative stress; Thiol oxidation; Alzheimer's disease; Neuroblastoma culture (Ko, L.-w. (760) 118)

Tau protein
Transglutaminase; Neurofibrillary tangle; Alzheimer's disease (Johnson, G.V.W. (751) 323)

Cytoskeleton; Calcium; Okadaic acid; Phosphatase 1/2A; Cortical neuron; Cerebellar granule cell (Adamec, E. (757) 93)

Taurine
Substantia nigra; γ-Aminobutyric acid (GABA); Glycine; Chloride channel; Bicuculline; Strychnine (Ye, G.-l. (749) 175)

TDN-345
Cerebrovascular lesion; Stroke-prone spontaneously hypertensive rat; Stroke; Local cerebral glucose utilization; Sensorimotor cortex; Locus coeruleus (Nakayama, T. (762) 203)

C6-10A; Astrocytoma; Nerve growth factor; Neurotrophic factor; Induction (Fukumoto, H. (774) 87)

TEA
K^+ channel; 4-AP (Müller, M. (769) 245)

Telencephalon
Lizard, telencephalon; Reptile; Neurotoxin; Degeneration; Regeneration; Reactive neurogenesis; [^{3}H]Thymidine (Font, E. (754) 245)

Preglomerular nucleus; Neuronal tract tracing; Biocytin; Dextran-tetramethylrhodamine; Gymnotiform; *Apteronotus leptorhynchus* (Zupanc, G.K.H. (761) 179)

Forebrain; Basal ganglia; *Lampetra fluviatilis*; Fluorescent tracer; Immunohistochemistry (Pombal, M.A. (766) 249)

Teleost
Midbrain locomotor region; Swimming; Electrical stimulation; Chemical stimulation (Uematsu, K. (773) 1)

Teleostei
Diencephalon; Retrograde tracing; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Neuroendocrine control; Gymnotiformes (Zupanc, G.K.H. (774) 106)

Dorsal thalamus; Preoptic area; Retrograde tracing; Anterograde tracing; Biocytin; Gymnotiformes (Zupanc, G.K.H. (776) 117)

Temperature
Adaptation; Amiloride analog; Chorda tympani nerve; Transduction (Lundy, Jr., R.F. (744) 309)

Caffeine; Bright light; Melatonin; Adenosine; Circadian rhythm; Sleep deprivation (Wright Jr., K.P. (747) 78)

Lizard; *Christinus marmoratus*; Melatonin; Pineal organ; Circadian rhythm; In vitro (Moyer, R.W. (747) 230)

Fenfluramine; Amphetamine; Neurotoxicity; Thermoregulation; 5-HT; 5-HIAA (Malberg, J.E. (765) 101)

Hippocampus; CA1; Seizure; Potentiation; Hypoxia (Watson, P.L. (775) 134)

Brain slice; Extracellular recording; Hypothalamus (Burgoon, P.W. (777) 31)

Temperature guardian neuron
Neuronal thermosensitivity; Anterior hypothalamus; Critical brain temperature; Two-tier theory (Basta, D. (767) 361)

Temperature regulation
Nitric oxide; Heat loss; Skin vasomotion; Thermal panting; Arterial pressure and heart rate; Rabbit (Eriksson, S. (774) 269)

Temperature-sensitive mutant of simian virus 40
Astrocyte cell line; tsA640; Glial fibrillary acidic protein (Kitamura, Y. (759) 295)

Temporal bilateral coordination
Learned bilateral blinking; Blink onset; Side superiority; Bilateral coupling; Cat (Spidalieri, G. (746) 34)

Learned bilateral blinking; Blink onset; Side superiority; Bilateral coupling; Corpus callosum; Split-brain; Cat (Spidalieri, G. (770) 30)

Temporal cortex
Immunohistochemistry; Pyramidal neuron; Hippocampus; Western blot (Terai, K. (769) 385)

Neurodegenerative disease; Hybridization, in situ; Gene expression; Pyramidal neuron; Hippocampus; Neuroinflammatory (Shen, Y. (769) 391)

Temporal lobe
Magnetoencephalography; Event-related potential; N400; Reading; Human; Sentence comprehension (Simos, P.G. (762) 29)

Temporal lobe epilepsy
Fimbria/fornix; Perforant path; Hippocampus; Seizure; Synaptic reorganization (Mohapel, P. (778) 186)

Temporoammonic projection
5-Hydroxytryptamine; Perforant pathway; Excitatory amino acid; Postsynaptic inhibition; Glutamate (Grünschlag, C.R. (770) 10)

Tendon organ
Eccentric exercise; Muscle damage; Muscle spindle; Proprioception; Fatigue; Soreness; Voluntary contraction (Brockett, C. (771) 251)

Terminal field distribution pattern
Grid mapping; Norepinephrine; Dopamine; Serotonin; Thalamus (Oke, A.F. (763) 69)

Testosterone
Medial preoptic area; Bed nucleus of the stria terminalis; Medial nucleus of the amygdala; Mating behavior; Fos (Swann, J.M. (750) 189)

Preoptic area; Brain lesion; Excitotoxin; NMDA (*N*-methyl-D-aspartate); Sex behavior; Aromatase; Musk shrew (Veney, S.L. (756) 273)

Photoperiod; Plasticity; Songbird; Vocalization; Seasonality (Bernard, D.J. (760) 163)

Cytochrome *P*-450; Sex steroid; Progesterone; Competitive polymerase chain reaction; Induction; Suppression (Baum, L.O. (765) 67)

Adrenocorticotropin (ACTH); Adrenocorticotropin; Corticosterone; Corticotropin releasing factor; Corticotropin releasing hormone; Vasopressin; Estradiol (Ogilvie, K.M. (766) 19)

Steroid; Androgen; Corpus callosum; Commissure; Interhemispheric; Human (Moffat, S.D. (767) 297)

Tetanus toxin
Epilepsy; Motor cortex; Immediate early gene; *c-fos*; *zif*268/*egr*-1; Activity-dependent gene expression (Liang, F. (778) 281)

Tetrahydroberberine
K^+ current; K^+ channel; Hippocampus; Dissociated neuron; Patch clamp (Wu, J. (775) 214)

Tetrahydrobiopterin
GTP-cyclohydrolase-I; Rat brain; Immunohistochemistry; Monoaminergic neuron (Dassesse, D. (777) 187)

Δ^9-Tetrahydrocannabinol
Fos protein; Desensitization; Striatum; Nucleus accumbens (Miyamoto, A. (763) 137)

Tetrahydrofolate dehydrogenase
Astrocyte; Cerebellum; Cerebral cortex; Ependyma; Glia; Folic acid; Formate; Spinal cord (Neymeyer, V. (766) 195)

Tetrahydroisoquinoline
Parkinson's disease; 3,4-Dimethoxyphenylethylamine; Tetrahydropapaverine; MPP^+; Dopamine; Osmotic pump (Koshimura, I. (773) 108)

Tetrahydropapaverine
Parkinson's disease; Papaverine; Dimethoxyphenylethylamine (DMPEA); 1-Methyl-4-phenylpyridinium ion (MPP^+); Ventral mesencephalic-striatal co-culture (Goto, K. (754) 260)

Parkinson's disease; 3,4-Dimethoxyphenylethylamine; MPP^+; Dopamine; Osmotic pump; Tetrahydroisoquinoline (Koshimura, I. (773) 108)

Tetrodotoxin
Sodium; Hippocampus; CA1; Anoxia; Amiloride (Fung, M.-L. (762) 97)

Dexamethasone; Muscle inactivity; Neurotrophic control; Muscle extrajunctional membrane property; Tetrodotoxin-insensitive Na^+ channel; Chronic block of nerve impulse conduction (Pasino, E. (770) 242)

Neuropeptide Y; γ-Aminobutyric acid; $GABA_A$; Suprachiasmatic nucleus; Circadian rhythm (Huhman, K.L. (772) 176)

Tetrodotoxin functional inactivation
Ventral hippocampus; Passive avoidance; Acquisition; Consolidation; Retrieval (Ambrogi Lorenzini, C.G. (768) 242)

Tetrodotoxin-insensitive Na^+ channel
Dexamethasone; Muscle inactivity; Neurotrophic control; Muscle extrajunctional membrane property; Tetrodotoxin; Chronic block of nerve impulse conduction (Pasino, E. (770) 242)

Thalamic reticular nucleus
Blink; Blink suppression; Lateral geniculate nucleus (Lo, F.-S. (767) 176)

Thalamocortical neurons
Extended sleep; Electroencephalogram; Spectral analysis; Spindle frequency activity; Slow-wave activity (Aeschbach, D. (748) 131)

Thalamus
Parabrachial nucleus; Kölliker-Fuse nucleus; Spinal cord; Axon collateral; Pain; Retrograde labeling; Rat (Li, J.-L. (745) 321)

Lateralis medialis-suprageniculate nuclear complex; Pedunculopontine tegmental nucleus; Choline acetyltransferase; GABA; Glutamate; Cat (Hoshino, K. (747) 151)

Fear; Conditioning; Calcium; Hippocampus; Glutamate; Diacylglycerol (DAG) (Shors, T.J. (750) 293)

MPTP; Parkinson's disease; Substantia nigra; Neuronal degeneration; Mice; Fluoro-Jade (Freyaldenhoven, T.E. (759) 9)

Terminal field distribution pattern; Grid mapping; Norepinephrine; Dopamine; Serotonin (Oke, A.F. (763) 69)

Striate cortex; Extrastriate visual cortex; Subcortical visual pathway; Calcium-binding protein; Visual system; Primate (Gutierrez, C. (765) 349)

Insomnia; Prion disease (Macchi, G. (771) 154)

p-Chlorophenylalanine; 5-Hydroxytryptamine; Bed nucleus; Caudate–putamen; Amygdala; Parabrachial nucleus; Nucleus of the solitary tract (Javed, A. (774) 94)

Nucleus X; Somatosensory system; Brainstem; Medulla oblongata; Inferior colliculus; Cerebellum; Rat (Li, H. (774) 200)

Penicillin; Diazepam; Absence seizure; Hypothermia; GABA (Ostojić, Z.S. (777) 86)

Weaver; Substantia nigra; Cerebellum; In situ hybridization; K_{IR} channel (Chen, S.-C. (778) 251)

Thapsigargin
Apoptosis; Cell death; Cerebellar granule neuron; Intracellular calcium; Mastoparan; Cholera toxin; Caffeine (Lin, S.-Z. (771) 184)

Thaumatin
Behavioral experiment; Chorda tympani nerve; Monellin; Sucrose; Taste cell (Tonosaki, K. (748) 234)

Thenar muscle
Information processing; Intersensory facilitation; H-reflex (Romaiguère, P. (755) 181)

Thermal
Tachykinin; Nociception; Pain; C fiber; A-delta; RIA (Zachariou, V. (752) 143)

Thermal hyperalgesia
Nociceptin; Opioid receptor-$like_1$ receptor; Carageenan test; Spinal facilitation (Yamamoto, T. (754) 329)

Thermal panting
Nitric oxide; Temperature regulation; Heat loss; Skin vasomotion; Arterial pressure and heart rate; Rabbit (Eriksson, S. (774) 269)

Thermogenesis
Neuropeptide Y; Obesity; Receptor autoradiography; Hypothalamus; Energy balance (Widdowson, P.S. (774) 1)

Thermoregulation
Basal forebrain; Broca; Diagonal band; In vitro; Microwire; Rat; Sleep; Synaptic blockade; Thermosensitivity (Hays, T. (746) 52)

Agonist; Antagonist; Cholinergic; Medial preoptico-anterior hypothalamic area; Sleep; Wakefulness (Mallick, B.N. (750) 311)

Gonadotropin releasing hormone; Female rat; Septal area; Preoptic area; Vasomotion; Hot flush (Hosono, T. (754) 88)

Fenfluramine; Amphetamine; Neurotoxicity; Temperature; 5-HT; 5-HIAA (Malberg, J.E. (765) 101)

Thermoresponsiveness
Scrotal thermal stimulation; VMH warm and cold neurons (Li, Q. (749) 29)

Scrotal thermal stimulation; VMH warm and cold responsive neuron; Cold acclimatization; Neuronal adaptation (Li, Q. (770) 18)

Thermosensitivity
Basal forebrain; Broca; Diagonal band; In vitro; Microwire; Rat; Sleep; Synaptic blockade; Thermoregulation (Hays, T. (746) 52)

Diagonal band of Broca; Warm-sensitive neuron; Cold-sensitive neuron; Wakefulness; Non rapid eye movement sleep (Alam, Md.N. (752) 81)

Theta
Hippocampus; Human; Medial temporal lobe; Functional brain imaging; MEG magnetoencephalographic source mapping; Spontaneous activity; SSP signal-space projection (Tesche, C.D. (749) 53)

Hypothalamus; Hippocampus; Learning; Water maze; Benzodiazepine (Pan, W.-X. (764) 101)

Hippocampus; Cholinergic; Stress; Adrenocorticotropin; Corticosterone; Fear (Bhatnagar, S. (766) 244)

In vitro; GABAergic; Cholinergic (Konopacki, J. (775) 91)

Theta rhythm
Event-related brain potential; Saccadic eye movement; Visual memory; Medial septum; Hippocampus; Medial temporal lobe; Memory (Sobotka, S. (756) 168)

Hippocampus; Unilateral lesion; Serotonin; Noradrenaline; Acetylcholine; AMPA receptor (Van Praag, H. (768) 233)

Sleep; Waking; Intermediate stage; GABA antagonist, type B; Spindle; Rat (Gauthier, P. (773) 8)

Thiol
Aging; Synaptic mitochondrion; Protein carbonyl; Antioxidant (Banaclocha, M.M. (762) 256)

Thiol oxidation
Menadione; Oxidative stress; Tau dephosphorylation; Alzheimer's disease; Neuroblastoma culture (Ko, L.-w. (760) 118)

Thiyl radical
Alzheimer's disease; Heme; Muscarinic receptor; Free radical; Antioxidant; Estrogen; Vitamin E (Venters Jr., H.D. (764) 93)

Three-dimensional reconstruction
Medial pallidum; Motor thalamus; Central complex; Macaques; Axonal ending (Arecchi-Bouchhioua, P. (754) 311)

DL-Threo-β-hydroxyaspartate
Excitatory amino acid; Glutamate; Glutamate transporter; 1-Amino-3-hydroxy-5-methyl-4-isoxazole propionic acid (AMPA) receptor; Spinal cord; Amyotrophic lateral sclerosis; Neurotoxicity (Hirata, A. (771) 37)

Threshold
Cerebral infarction; Disseminated selective neuronal necrosis; Repeated ischemia; Maturation phenomenon; Gerbil (Hanyu, S. (767) 154)

Thrombin receptor
Rat hippocampal neuron; Thrombin receptor agonist peptide (TRAP); cAMP; Calcium (Yang, Y. (761) 11)

Thrombin receptor agonist peptide (TRAP)
Thrombin receptor; Rat hippocampal neuron; cAMP; Calcium (Yang, Y. (761) 11)

Thromboembolic stroke
MCA occlusion; Rat; Thrombolysis; rt-PA; rCBF (Busch, E. (778) 16)

Thrombolysis
Stroke; Neuroprotection; Eliprodil; rt-PA (Lekieffre, D. (776) 88)

Thromboembolic stroke; MCA occlusion; Rat; rt-PA; rCBF (Busch, E. (778) 16)

Thymidine
Nucleoside; Specificity; Transport; Carrier-mediated; NBMPR; Blood-brain barrier; Choroid plexus (Thomas, S.A. (760) 59)

Adenosine; Guanosine; Choroid plexus; Nitric oxide synthase; L-NAME (Redžić, Z.B. (767) 26)

Thymosin α1
Athymic; BALB/c; Mice; Microglia; Lectin; Mac-1; Cortisol (Htain, W.-W. (755) 63)

Thymus
Frontal cortex; CD4 and CD8 T-cells; Prolactin; Substantia nigra ventral tegmental area (Gaufo, G.O. (756) 191)

Thyroid gland
Paraventricular nucleus; Stress ulcer; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Adrenal gland; Gonad; Vagus; Sympathetic nerve (Zhang, J.-F. (761) 203)

Thyroid hormone
Aging; Glucose transport; GLUT-1 (Mooradian, A.D. (747) 144)

Myelin basic protein; Proteolipid protein; 2′:3′-Cyclic nucleotide 3′-phosphodiesterase; Myelin-associated glycoprotein; Platelet-derived growth factor receptor; Hyperthyroidism; Development; Hypothyroidism (Ibarrola, N. (752) 285)

Neuronal differentiation; Cytoskeletal protein; Actin (Biswas, S.C. (757) 245)

Thyroid hormone receptor
Radioimmunohistochemistry (Nobrega, J.N. (761) 161)

mRNA; Antibody; Rat pituitary (Li, M. (773) 125)

Thyrotropin-releasing hormone (TRH)
Soman; Seizure; Metabolism; Acetylcholine; Excitotoxicity; Organophosphorus (Kubek, M.J. (747) 328)

Thyrotropin releasing hormone (TRH)
Biosynthesis; Processing; Convertase; PC1; PC2; Hybridization, in situ; Hypothalamus; Paraventricular nucleus (Sánchez, E. (761) 77)

TIDA neuron
Nicotine; Atropine; Mecamylamine; Naloxone; Dopamine; Prolactin; Median eminence (Shieh, K.-R. (756) 266)

Time-series analysis
Spontaneous activity; Burst discharge; Mitral/tufted cell; Olfactory bulb; Cat (Motokizawa, F. (763) 285)

Timm's stain
Synaptogenesis; Opioid receptor; Long-term potentiation; Mossy fiber-CA3; Hippocampus (Escobar, M.L. (751) 330)

Timolol
Nucleus of the solitary tract; Subfornical organ; Noradrenergic pathway; Phentolamine; Microiontophoresis; Hemorrhage; Baroreceptor activation; Rat (Tanaka, J. (777) 237)

Tissue culture
N-Methyl-D-aspartate; Sulfhydryl; Rat cerebral cortex; Glutamate; Neurotoxicity (Sinor, J.D. (747) 297)

Alzheimer's disease; β-Amyloid; Microglia; Integrin; Nitric oxide; Flow cytometry (Goodwin, J.L. (768) 279)

Melatonin; Oxidative stress; Dopamine neuron; MPP^+; Oxyradical (Iacovitti, L. (768) 317)

Tissue distribution
Bombesin; Neuromedin B receptor; Bombesin receptor subtype 3; Genomic organization (Ohki-Hamazaki, H. (762) 165)

Tissue injury
Fos; Nerve injury; Trigeminal nucleus caudalis; Infraorbital nerve; Immunohistochemistry (Terayama, R. (768) 135)

Tissue plasminogen activator
Weaver; Cerebellum; Neuron; Cell death (Mecenas, P.E. (772) 233)

Tissue PO_2
Ca^{2+}-activated K^+ channel; Hypercapnia; Hypoxia; O_2 disappearance rate (Osanai, S. (747) 324)

Tissue section
[γ-^{35}S]GTP binding; G protein coupled receptor; Retinorecipient structure (Kurkinen, K.M.A. (769) 21)

TNF binding protein
Tumor necrosis factor; Brain infarction; Mouse; DNA fragmentation (Nawashiro, H. (778) 265)

TNF receptor
Pituitary; AtT/20; TtT/GF (Kobayashi, H. (758) 45)

α-Tocopherol
Reperfusion injury; Peripheral nerve; Ischemic neuropathy; Carbonyl formation; Endoneurial vessels (Anderson, G.M. (772) 156)

Tolbutamide
Excitotoxicity; Cyanide; Glutamate; K_{ATP} channels; Neuroprotection (Wind, T. (751) 295)

Tolerance
[D-Pen^2,D-Pen^5]enkephalin; [D-Ala^2,Glu^4]deltorphin II; δ_1-, δ_2-Opioid receptor agonist; Analgesia; Brain receptor (Zhao, G.-M. (745) 243)

κ-Opioid receptor agonist; U-50,488H; Analgesia; Hypothermia; NMDA receptor antagonist; LY235959; Competitive antagonism (Bhargava, H.N. (747) 246)

Lipopolysaccharide; Tumor necrosis factor α; Endotoxin; Cerebral ischemia; Rat (Tasaki, K. (748) 267)

U-50,488H; κ-Opioid receptor agonist; [^{3}H]MK-801 binding; Brain region; Spinal cord; Rat (Bhargava, H.N. (749) 347)

Ibogaine; Antinociception; Morphine; U-50,488H; DPDPE; Opioid receptor agonist; Mouse (Cao, Y.-J. (752) 250)

Chronic pain; Allodynia; Intrathecal; Opioid; Spinal cord (Yu, W. (756) 141)

Radioligand assay; Autoradiography; In situ hybridization; Hippocampus; Cerebral cortex; Striatum; Cerebellum (Johansson, B. (762) 153)

Noribogaine; Morphine; Antinociception; Mouse (Bhargava, H.N. (771) 343)

Morphine; Midazolam; Opioid; Benzodiazepine; Met-enkephalin; Brain region; Spinal cord; Peripheral tissue; Central nervous system (Tejwani, G.A. (775) 119)

Tolerance dependence
Morphine; Midazolam; Opioid; Benzodiazepine; Dynorphin(1–13); Opioid peptide; Brain region; Pituitary gland; Spinal cord; Peripheral tissue (Rattan, A.K. (754) 239)

Tongue
Adrenergic; Electrophysiology; Imidazoline; Inward rectification; Neuromodulation; Respiration; Voltage clamp (Parkis, M.A. (769) 108)

Hypoglossal nerve; Afferent; Anuran; Sensory feedback (Anderson, C.W. (771) 285)

Tonic voluntary contraction
Motor evoked potential; H-reflex; Flexor carpi radialis muscle; Phasic voluntary contraction; Human (Kasai, T. (764) 273)

Tonin
Kallikrein; Angiotensinase; Angiotensin II; Rat brain (Lopes, E.S. (769) 152)

Tonotopic map
Plasticity; Reorganization; Pseudoplasticity; Dorsal cochlear nucleus (Meleca, R.J. (750) 201)

Toosendanin
Presynaptic blocker; Inhibition; NG108-15 cell; Delayed rectifier potassium current; Whole-cell recording (Hu, Q. (751) 47)

Tooth-pulp
Jaw-opening reflex (JOR); Opioid; Transcranial electrical stimulation (TCES); Fentanyl; Rat (Alantar, A. (763) 14)

Topographic projection
Superior colliculus; Brainstem; Afferent connections; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (755) 279)

***Torpedo* electric organ**
Synaptic vesicle; Quantal release; Morphometry; Exocytosis; Endocytosis; Vesicle hypothesis; Acetylcholine; KCl stimulation; Sucrose stimulation (Fox, G.Q. (755) 47)

Toxicity
Voltage-dependent K^+ channel; Brain damage; Seizure; Hippocampus; Cerebellum (Mourre, C. (762) 223)

Aminoglycoside; Hair cell; Endocytosis; Lysosome; Trafficking; Chicken (Hashino, E. (777) 75)

Toxin
Spinal cord; Inhibition (Bagust, J. (773) 181)

T2*-weighted magnetic resonance imaging
Focal cerebral ischemia; Carbon dioxide reactivity; Rat (Ono, Y. (744) 207)

Tract-tracer
Small intestine; β-Galactosidase; Autonomic anatomy; Sympathetic topography (Mabon, P.J. (753) 245)

Trafficking
Aminoglycoside; Hair cell; Endocytosis; Lysosome; Toxicity; Chicken (Hashino, E. (777) 75)

Transcranial electrical stimulation (TCES)
Jaw-opening reflex (JOR); Tooth-pulp; Opioid; Fentanyl; Rat (Alantar, A. (763) 14)

Transcranial magnetic brain stimulation
Simple reaction time; Silent period; Motor cortex; Supplementary motor area; Spinal motoneuron excitability; F wave; Human (Ziemann, U. (744) 32)

Transcription
Promoter; Opioid; Receptor (Liang, Y. (769) 372)

Transcription factor
Supraoptic nucleus; Immunocytochemistry; Immediate early gene; Vasopressin; Oxytocin; Osmotic stimulation; Stress (Wang, K. (746) 117)

Immediate–early gene; Neuropeptide; Food intake; Immunohistochemistry (Houpt, T.A. (751) 143)

NMDA; AMPA; AP-1; Cerebellar granule cell; Rat (Hou, Y.-N. (754) 79)

Fra; Jun-D; Hippocampus; Kainic acid; Seizure; AP-1 (Feng, Z. (770) 53)

Transcytosis
Ultrastructure; Transferrin; Colloidal gold; Blood–brain barrier; Brain endothelial cell (Van Gelder, W. (746) 105)

Transduction
Adaptation; Temperature; Amiloride analog; Chorda tympani nerve (Lundy, Jr., R.F. (744) 309)

Transfer
Epilepsy; Kindling; Atropine; Muscarinic; Acetylcholine; Amygdala; Perirhinal cortex (Buchanan, J.-A.M. (771) 63)

Epilepsy; Kindling; Amygdala; Perirhinal cortex; Frontal cortex (Buchanan, J.-A.M. (771) 71)

Transfer constants
Blood-brain barrier; Cerebral ischemia; Stroke; Permeability-area product; Sucrose; Inulin (Preston, E. (761) 4)

Transferrin
Ultrastructure; Colloidal gold; Blood–brain barrier; Brain endothelial cell; Transcytosis (Van Gelder, W. (746) 105)

Transferrin receptor
Iron; Substantia nigra; Ventral tegmental area; Parkinson's disease; Oxidative stress; Cell death; Autoradiography (Faucheux, B.A. (749) 170)

Transforming growth factor-β
Allodynia; Hyperalgesia; Interleukin-1β; Tumor necrosis factor-α; Basic fibroblast growth factor; Neuroimmune activation (DeLeo, J.A. (759) 50)

Transforming growth factor-β1
Leukemia inhibitory factor; Schwann cell; Neurotrophic factor; DRG neuron; Sciatic nerve; Nerve regeneration (Matsuoka, I. (776) 170)

Transgenic
Mouse; Plasticity; Spatial learning; Synaptophysin; GAP43; Morris water maze; Entorhinal cortex lesion (Hardman, R. (758) 187)

Transgenic animal
Mouse; Monoamine oxidase; Histochemistry; Catecholamine; Serotonin; Aggressive behavior; Species difference (Ikemoto, K. (771) 121)

Transgenic mouse
Alzheimer's disease; Amyloid β protein precursor; Amyloid β protein; Cathepsin D; Lysosome; Pancreas (Kawarabayashi, T. (765) 343)

Insulin-like growth factor; Binding protein; Brain development; Astrocyte (Ni, W. (769) 97)

MAOB; Enzyme histochemistry; Ultrastructure; Nucleus accumbens shell; Dopamine (Ikemoto, K. (771) 163)

μ-Knockout; *MOR* gene; Opioid receptor; Receptor, μ-, δ-, κ_1- and κ-; Autoradiography; Opioid receptor mapping; Gene deletion (Kitchen, I. (778) 73)

Transglutaminase
Human recombinant tau htau40; Paired helical filament; Neurofibrillary tangle; Insoluble filament (Appelt, D.M. (745) 21)

Neurofibrillary tangle; Alzheimer's disease; Tau protein (Johnson, G.V.W. (751) 323)

Transient global ischemia
Ischemic tolerance; Intraischemic hypothermia; Delayed neuronal death; Gerbil (Wada, K. (746) 301)

Transient ischemia
Gerbil; Delayed neuronal death; CA1 (Antonawich, F.J. (764) 249)

Transient middle cerebral artery occlusion
Microglia; Rat (Zhang, Z. (744) 189)

Transmission electron microscopy
Ultrastructure; Paired helical filament; Alzheimer disease; Corticobasal degeneration; Vanadate (Tracz, E. (773) 33)

Transmitter interaction
Lymnaea stagnalis; Osphradium; Sensory neuron; γ-Aminobutyric acid (GABA); FMRFamide; Serotonin; Electrophysiology (Nezlin, L. (772) 217)

Transmitter release
Opioid receptor; Calcium channel; Dopamine; Neuroblastoma; Pertussis toxin (Keren, O. (764) 277)

Acetylcholine; Cerebellar granule cell; M_2 receptor; M_3 receptor; Intracellular calcium (Beani, L. (765) 91)

Proline; Synaptic plasticity; Hippocampus; Glutamate; Aspartate; Paired pulse facilitation; Hyperprolinemia (Cohen, S.M. (769) 333)

γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Inhibition; Paired-pulse depression; Short-term plasticity; Superior colliculus (Platt, B. (777) 131)

Transplant
Plasticity; Synaptogenesis; Hippocampus; Dentate gyrus; Deafferentation; Sprouting; Reinnervation (Field, P.M. (751) 352)

Transplantation
Parkinson's disease; 6-Hydroxydopamine lesion; Behavioral test; Rotational behavior (Rozas, G. (749) 188)

Leptomeningeal; Fibroblast; Amyloid; Uptake; Amyloid precursor protein; Human specific (DeGiorgio, L.A. (752) 35)

Fetal spinal cord; Muscle reinnervation; Spinal neuron; Sciatic nerve; Axonal growth; Choline acetyltransferase; Cholera toxin B (Katsuki, M. (771) 31)

Transport
Glutamine; Cerebellar granule cell; Cerebral cortical neuron; Astrocyte (Su, T.-Z. (757) 69)

Nucleoside; Specificity; Thymidine; Carrier-mediated; NBMPR; Blood-brain barrier; Choroid plexus (Thomas, S.A. (760) 59)

Transporter
Amino acid, excitatory; Neurodegeneration; Schizophrenia; Immunocytochemistry (Shashidharan, P. (773) 139)

Cell injury; Astrocyte; Glutamate; Uptake (Eng, D.L. (778) 215)

Transsynaptic labeling
Postnatal development; Respiratory control; Sneeze reflex; Trigeminal afferent; Brainstem; Fos-like immunohistochemistry; Cat (Masmoudi, K. (757) 102)

Transsynaptic transfer
Olfactory tubercle; WGA-HRP; Artificial neural network; Image analysis; Olfactory cortex; Olfactory bulb (Josephson, E. (744) 253)

Trauma
Calpain; Expression; Spinal cord; Neurofilament protein; Proteinase (Banik, N.L. (752) 301)

Astrocyte; Fibroblast growth factor-2 (FGF-2); Glial fibrillary acidic protein (GFAP) (Reilly, J.F. (759) 277)

Traumatic brain injury
Endothelial nitric oxide synthase; NADPHd (Cobbs, C.S. (751) 336)

Paired-pulse inhibition; Hippocampus; Dentate gyrus; γ-Aminobutyric acid; Rat (Reeves, T.M. (757) 119)

Amphetamine; Cerebral glucose utilization; Cortical contusion; Remote functional depression (Queen, S.A. (777) 42)

Tremor
Dizocilpine; Harmaline; Inferior olive; Nictitating membrane response; Rabbit (Du, W. (745) 183)

Cerebral cortex; Harmaline; Inferior olive; MK-801; Rabbit (Du, W. (770) 26)

Tricarboxylic acid cycle (TCA) cycle
Nuclear magnetic resonance; Brain; Glucose; Compartmentation; ^{13}C; Neuron; Astrocyte (Aureli, T. (765) 218)

Trigeminal afferent
Postnatal development; Respiratory control; Sneeze reflex; Brainstem; Transsynaptic labeling; Fos-like immunohistochemistry; Cat (Masmoudi, K. (757) 102)

Trigeminal ganglion
S100; Parvalbumin; Calbindin D-28k; Calretinin; Dorsal root ganglion (Ichikawa, H. (748) 253)

Inferior alveolar nerve; Nitric oxide; NADPH-diaphorase; Re-innervation; Horseradish peroxidase (Yonehara, N. (757) 31)

Cytokine; Meninges; Receptor; Tumor necrosis factor (TNF) (Cunningham Jr., E.T. (758) 99)

Calretinin; Immunohistochemistry; Incisor; Parvalbumin; Periodontal ligament; Ruffini-like ending (Ichikawa, H. (770) 294)

Trigeminal motor nucleus
Synapse; Axo-axonic; Inhibition; Parvocellular reticular nucleus; Peritrigeminal nucleus; Immunogold; Electron microscopy (Yang, H.-W. (749) 301)

Trigeminal nucleus caudalis
Fos; Nerve injury; Tissue injury; Infraorbital nerve; Immunohistochemistry (Terayama, R. (768) 135)

Fos-like immunoreactivity; Migraine; NMDA receptor; CGRP receptor; NK_1 receptor (Clayton, J.S. (775) 74)

Trigemino-hypoglossal reflex
Cerebral ventricle; Substance P analog (Zubrzycka, M. (753) 128)

Trigeminovascular
Neural innervation; Cerebral vasodilatation; Migraine (Goadsby, P.J. (751) 247)

Trilostane
$GABA_A$ receptor; Proopiomelanocortin; Diazepam-binding inhibitor; Pregnenolonesulfate; Octadecaneuropeptide; Pars intermedia (Garcia de Yebenes, E. (750) 277)

α-Trinositol
Antinociception; Spinal microdialysis; Amino acid; Prostaglandin E_2; Formalin test (Malmberg, A.B. (747) 160)

Nerve injury; Hyperalgesia; Nociceptive flexion reflex; Neuropeptide Y; [Leu^{31},Pro^{34}]-neuropeptide Y; *N*-acetyl-[Leu^{28},Leu^{31}]-neuropeptide Y_{24-36} (White, D.M. (750) 141)

Cell swelling; C6 glioma; Lactacidosis; Glutamate (Staub, F. (766) 285)

Trisomic mouse
Down syndrome; β-Adrenoceptor; Hippocampus; Cerebral cortex; Cerebellum (Dierssen, M. (749) 238)

Trk protein distribution
Auditory system central anatomy; Cochlear nucleus; Distribution (Burette, A. (776) 10)

Troglitazone
K_{ATP} channel; Ventromedial hypothalamus (Lee, K. (751) 165)

Trophic factor
Rat glial cell; Extracellular matrix; Adhesion molecule (Mahler, M. (775) 63)

Axotomy; Cell death; Ciliary neurotrophic factor; Cytokine; Neuronal cell culture; Spinal cord injury (Rosenberg, L.J. (775) 209)

Trophin
Diabetic neuropathy; Polyneuropathy; Myelinated axon (Singhal, A. (763) 209)

Trout
Angiotensin II; Neuropeptide; Dorsal vagal motor nucleus; Heart rate; Blood pressure; Angiotensin II AT_1 receptor (Pamantung, T.F. (772) 167)

True blue
Lateral hypothalamic area; Zona incerta; Periaqueductal gray matter; Retrograde tracers; Melanin-concentrating hormone; Neuropeptide EI (Elias, C.F. (755) 255)

Choline acetyltransferase; NADPH diaphorase; Nitric oxide synthase; Retrograde axonal tracing; Sphenopalatine ganglion; Cerebral blood vessel (Kimura, T. (773) 117)

Tryptophan
Serotonin; Prolactin; Luteinizing hormone; Development (Martin, L. (774) 265)

Alzheimer's disease; Kynurenine; NGF; Astrocyte (Dong-Ryul, L. (777) 228)

Tryptophan-free diet
Avoidance learning; Radial-arm maze; Hippocampus; Cortex; Serotonin release (Stancampiano, R. (762) 269)

Tryptophan hydroxylase
Cerebral artery; Superior cervical ganglion (Moreno, M.J. (749) 161)

Hypoxia; Rat; Chemoreflex; Indolamine; NSD 1015 (Poncet, L. (765) 122)

TtT/GF
TNF receptor; Pituitary; AtT/20 (Kobayashi, H. (758) 45)

Tubulin
Cytoskeleton; Tumor suppressor gene; p21-ras; GTPase activating protein; NF1 (Xu, H.-m. (759) 149)

Androstenedione; Differentiation; Mouse; Cell line; Cytoskeleton (Thuerl, C. (762) 47)

Tufted cell
c-Jun; Acetic acid; 1-Butanol; Olfactory bulb; Periglomerular çell; Mitral cell; Granule cell (Baba, K. (774) 142)

Tumor necrosis factor
Endotoxin; Sleep; Electroencephalographic spectral analysis; Brain temperature; Rat (Lancel, M. (770) 184)

TNF binding protein; Brain infarction; Mouse; DNA fragmentation (Nawashiro, H. (778) 265)

Tumor necrosis factor α
Tolerance; Lipopolysaccharide; Endotoxin; Cerebral ischemia; Rat (Tasaki, K. (748) 267)

Allodynia; Hyperalgesia; Interleukin-1β; Basic fibroblast growth factor; Neuroimmune activation; Transforming growth factor-β (DeLeo, J.A. (759) 50)

Spinal cord injury; Secondary damage; Interleukin-1β; Interleukin-6; Macrophage invasion; Central nervous system (Klusman, I. (762) 173)

Interleukin-1; Interleukin-6; Endotoxin; Influenza virus; Feeding; IL-1-receptor antagonist (Swiergiel, A.H. (776) 96)

Tumor necrosis factor (TNF)
Cytokine; Trigeminal ganglion; Meninges; Receptor (Cunningham Jr., E.T. (758) 99)

Tumor suppressor gene
Tubulin; Cytoskeleton; p21-ras; GTPase activating protein; NF1 (Xu, H.-m. (759) 149)

TUNEL
Focal ischemia; Apoptosis; Enkephalin; Hybridization, in situ; Rat striatum (Popovici, T. (744) 185)

Programmed cell death; Apoptosis; Necrosis; Rat; Neuron; Astrocyte; Heat shock; DNA fragmentation; Acridine orange; HSP72; Immunohistochemistry (Vogel, P. (764) 205)

TUNEL staining
Focal cerebral ischemia; Reperfusion injury; DNA fragmentation (Murakami, K. (751) 160)

Turnover
Interferon-α; Dopamine; Parkinsonism; Depression; Suicide (Shuto, H. (747) 348)

Twitch
NMDA; Retrorubral nucleus; Atonia; REM behavior disorder; Narcolepsy; Periodic leg movement (Lai, Y.Y. (745) 257)

Two-dimensional gel electrophoresis
In situ phosphorylation; Protein kinase C translocation; MARCKS; Neurogranin; Phorbol ester; Hippocampal slice (Angenstein, F. (745) 46)

Two-tier theory
Neuronal thermosensitivity; Anterior hypothalamus; Critical brain temperature; Temperature guardian neuron (Basta, D. (767) 361)

Two-way active avoidance
Frontal cortex; Medial prefrontal cortex; Dorsal anterior cingulate cortex; Prelimbic cortex; Learning; 4-Arm baited, 4-arm unbaited, 8-arm radial maze; Reversal; Conditioned emotional response; Emotional processes; Rat (Joel, D. (765) 37)

Type-1 astrocyte
Astrocyte; Progenitor cell line; Growth factor; Reactive gliosis; Astroglial cell line (Seidman, K.J.N. (753) 18)

Type II neuron
DA agonist; Pramipexole; Parkinson's disease; Anterior caudate (Piercey, M.F. (762) 19)

Type I receptor
Learning; Adrenal steroid; Aldosterone; Type II receptor; Spatial recognition memory; Discrimination memory (Conrad, C.D. (759) 76)

Type II receptor
Learning; Adrenal steroid; Aldosterone; Type I receptor; Spatial recognition memory; Discrimination memory (Conrad, C.D. (759) 76)

Tyramine
Monoamine oxidase; Clorgyline; Deprenyl; Serotonin; β-Phenylethylamine; Locus coeruleus; Dorsal raphe nucleus (Arai, R. (745) 352)

Tyrosine hydroxylase
Dopaminergic system; Subthalamus; Biocytin; Fluoro-gold; Rat (Hassani, O.-K. (749) 88)

Immunohistochemistry; Mechanical allodynia; Peripheral nerve injury; Sensory ganglion; Sympathetic sprouting; Ultrastructure (Chung, K. (751) 275)

Adenosine receptor; Adenylyl cyclase; Brain; Dopamine (Choksi, N.Y. (761) 151)

Double labeling; Calbindin; Parvalbumin; γ-Aminobutyric acid; Colocalization (Völgyi, B. (763) 79)

6-Hydroxydopamine; Immunocytochemistry; Medial prefrontal cortex; Neostriatum; Nucleus accumbens core and shell; Schizophrenia; Stress (King, D. (767) 192)

Dopamine; Malonate; Cell loss; Substantia nigra; Striatum; Parkinson's disease (Sonsalla, P.K. (773) 223)

Norepinephrine transporter; Leukemia inhibitory factor; Ciliary neurotrophic factor; Retinoic acid; Superior cervical ganglia; PC12 cell (Matsuoka, I. (776) 181)

U

U-69,593
Butorphanol; Glutamate; Aspartate; Locus coeruleus; Morphine; Microdialysis; Nor-binaltorphimine (Hoshi, K. (753) 63)

Ubiquitin
Neurofibrillary degeneration; Aluminum; Amyloid precursor protein; Aβ; α_1-Antichymotrypsin; Rabbit (Huang, Y. (771) 213)

UH232
Clozapine; Dopamine receptor; Raclopride; Reinforcement; Self-stimulation (Nakajima, S. (760) 74)

Ultrasound Doppler flowmeter
Arousal; Cerebral blood flow; Cutaneous blood flow; Internal carotid artery (Yu, Y.-H. (767) 1)

Ultrastructural localization
Carotid body; Arterial chemoreceptor; Neutral endopeptidase 24.11; Immunotitration; Enkephalinase; Neprilysin (Kumar, G.K. (748) 39)

Potassium channel; Nonpyramidal cell; Interneuron; Channel rings; Parallel fiber; Immunofluorescence; Parvalbumin; Calbindin (Sekirnjak, C. (766) 173)

Ultrastructure
Transferrin; Colloidal gold; Blood–brain barrier; Brain endothelial cell; Transcytosis (Van Gelder, W. (746) 105)

Electron microscopy; Caudate nucleus/putamen; Nucleus accumbens shell; Immunocytochemistry; Dopamine D_2 receptor; Gamma-aminobutyric acid (GABA) (Delle Donne, K.T. (746) 239)

Immunohistochemistry; Mechanical allodynia; Peripheral nerve injury; Sensory ganglion; Sympathetic sprouting; Tyrosine hydroxylase (Chung, K. (751) 275)

CD38; Cyclic ADP-ribose; Central nervous system; Immunohistochemistry; Rat (Yamada, M. (756) 52)

Catecholamine; Pain; Peripheral sensitization (Carlton, S.M. (763) 271)

Opioid; Endogenous analgesia; Glutamate; Unmyelinated axon (Coggeshall, R.E. (764) 126)

MAOB; Enzyme histochemistry; Transgenic mouse; Nucleus accumbens shell; Dopamine (Ikemoto, K. (771) 163)

Paired helical filament; Alzheimer disease; Corticobasal degeneration; Vanadate; Transmission electron microscopy (Tracz, E. (773) 33)

Anatomy; Analgesia; Neurotransmitter; Dorsal horn (Cheng, P.Y. (778) 367)

Unilateral lesion
Hippocampus; Theta rhythm; Serotonin; Noradrenaline; Acetylcholine; AMPA receptor (Van Praag, H. (768) 233)

Unilateral 6-OHDA lesion
Dopaminergic neurons; Nucleus accumbens; Entorhinal cortex; Hemispheric asymmetry; Locomotor activity; (+)-amphetamine (Louilot, A. (778) 150)

Unit recording
Basal forebrain; Urethane-anesthetized rat; Electroencephalogram; Low-voltage fast activity; Slow wave; Cortical arousal (Détári, L. (759) 112)

Unmyelinated axon
Opioid; Endogenous analgesia; Ultrastructure; Glutamate (Coggeshall, R.E. (764) 126)

Upper airway
Abdominal muscle; Diaphragm; Swallowing; Vomiting; Ventral respiratory group (Umezaki, T. (769) 347)

Up-regulation
AMPA; Receptor; Perforant pathway lesion; Immunocytochemistry; Hippocampus (Mizukami, K. (768) 354)

Uptake
Transplantation; Leptomeningeal; Fibroblast; Amyloid; Amyloid precursor protein; Human specific (DeGiorgio, L.A. (752) 35)

Norepinephrine; Ethanol; Nomifensine; Age; Cerebellar cortex; Fischer 344 rat (Lin, A.M.-Y. (756) 287)

Acetylcholine; Choline; Diffusion; Caudate; Anterior thalamus; Agarose gel (Xin, Q. (776) 126)

Cell injury; Astrocyte; Glutamate; Transporter (Eng, D.L. (778) 215)

Uptake carrier
Arachidonic acid; Hippocampus; Synaptosome; Amino acid; Exocytosis; Protein kinase C (Breukel, A.I.M. (773) 90)

Urethane
Adult rat; Phrenic nerve; Recurrent laryngeal nerve; Coherence; High frequency oscillations; Medium frequency oscillations; Barbiturate (Kocsis, B. (745) 309)

Urethane-anesthetized rat
Basal forebrain; Unit recording; Electroencephalogram; Low-voltage fast activity; Slow wave; Cortical arousal (Détári, L. (759) 112)

Urethrogenital reflex
Sexual reflex; Ejaculation; Spinal cord; Sexual function (Durán, I. (775) 1)

Uric acid
Morphine; Dopamine xanthine metabolism; Ascorbic acid; Striatum; Release, in vivo (Enrico, P. (745) 173)

Uterus
Retrograde tracing; Sympathetic chain; Superior mesenteric ganglion; Inferior mesenteric ganglion; Rat (Vera, P.L. (747) 140)

V

Vacuous chewing movement
Stress; Restraint; Sensitization; Haloperidol; 8-OH-DPAT; 5-HT_{1A}; Catalepsy; Rat (Fdez. Espejo, E. (755) 351)

Vagal afferent
Multifunctional neuron; Multiconvergent neuron; Respiratory neuron; Nucleus tractus solitarius; Respiratory reflex; Sneeze; Nasal afferent (Wallois, F. (768) 71)

Vagal afferent neuron
Calbindin D-28k; Jugular ganglion; Immunohistochemistry; Nodose ganglion; Parvalbumin; Petrosal ganglion; S100 (Ichikawa, H. (768) 349)

Vagal sensory afferent
Glutamate; Medulla; Nucleus tractus solitarius; Rat (Sykes, R.M. (762) 1)

Vagotomy
Prostaglandin E_2 (PGE_2); Hyperthermia; c-fos; Sickness; Rat; Immediate-early gene (Milligan, E.D. (766) 240)

Vagus
Enterostatin; Intracerebroventricular injection; Gastric emptying; High-fat diet; Non-nutrient liquid meal (Lin, L. (745) 205)

Baroreceptor reflex pathway; Commissural nucleus; Sympathetic nervous system; Central cardiovascular reflex pathway (Ciriello, J. (749) 35)

Peptide YY; Neuropeptide Y; Receptor; Pancreas; Brainstem; Limbic; Hypothalamus; Rat (Whitcomb, D.C. (760) 137)

Paraventricular nucleus; Stress ulcer; Acetylcholine; Norepinephrine; 5-Hydroxytryptamine; Dorsal raphe nucleus; Locus ceruleus; Thyroid gland; Adrenal gland; Gonad; Sympathetic nerve (Zhang, J.-F. (761) 203)

Vagus nerve
Axotomy; Extracellular signal regulated kinase 1; Rat; Hypoglossal nerve; Hybridization, in situ (Mishima, K. (766) 50)

Cholecystokinin; Nucleus of the solitary tract; Area postrema; Ventrolateral medulla; Catecholamine; Old-world primate; Rhesus monkey; Cynomolgus monkey (Schreihofer, D.A. (770) 37)

QX-314; Lidocaine; Dorsal root ganglia; Dorsal horn; Neuroma; Heart rate; Blood pressure; Pain; Local anesthetic; Na^+ channel blocker (Omana-Zapata, I. (771) 228)

Cholecystokinin; Hepatic branch; Rat; Satiety; Visceral afferent (Cox, J.E. (776) 189)

Push–pull perfusion; Somatostatin; Substance P; Calcitonin gene-related peptide; Neurotensin; Cholecystokinin (Saleh, T.M. (778) 56)

Vagus nerve ganglion
Glutamate; Immunohistochemistry; Visceral sensory neuron; Rat (Schaffar, N. (778) 302)

Vanadate
Ultrastructure; Paired helical filament; Alzheimer disease; Corticobasal degeneration; Transmission electron microscopy (Tracz, E. (773) 33)

Vanilloid
Irritant; Spice; Black pepper; Chemosensitivity; Capsaicin; Proton; Synergy; Antagonist; Whole-cell patch-clamp (Martenson, M.E. (761) 71)

Vascular amyloid
Alzheimer's disease; Calcium; Free radical; Ion current; Oxidative stress (Mattson, M.P. (771) 147)

Vascular permeability
Hypothalamus; Mamillary nuclei; Capsaicin; Capsaicin-sensitive neuron; Evans Blue concentration (Tolochko, Z.S. (752) 324)

Vasoactive intestinal peptide
Rat; Circadian rhythm; Estrous cycle; Feedback; Vasopressin (Van der Beek, E.M. (755) 101)

NGFI-A; Suprachiasmatic nucleus; c-*fos*; Rat (Tanaka, M. (756) 305)

Circadian; Suprachiasmatic nucleus; GABA; Peptide histidine isoleucine; Gastrin-releasing peptide; Hamster (Gillespie, C.F. (759) 181)

Vasoactive intestinal polypeptide
Anterograde neuronal tracing; Biocytin; Centrifugal; Cholera toxin; Fast blue; Hamster; Lateral geniculate nucleus; Medial preoptic nucleus; *Phaseolus vulgaris* leucoagglutinin; Retina; Substance P; Superior colliculus; Suprachiasmatic nucleus; Supraoptic nucleus (Reuss, S. (745) 197)

Cultured hippocampal neuron; GABAergic inhibitory postsynaptic current; cAMP; Forskolin; Whole-cell patch-clamp recording (Wang, H.-L. (746) 294)

Hypothalamus; Suprachiasmatic nucleus; Paraventricular nucleus; Spinal cord; Light; Melatonin (Teclemariam-Mesbah, R. (748) 71)

Pituitary adenylate cyclase activating polypeptide; Intermediolateral cell column; Substance P; Glutamate; Sympathetic preganglionic neuron (Lai, C.C. (748) 189)

Cerebral cortex; Inhibitory interneuron; γ-Aminobutyric acid; Acetylcholine; Mirror technique (Bayraktar, T. (757) 209)

Electrical field stimulation; Neuropeptide Y; Lacrimal gland; Protein secretion; Pig (Adeghate, E.A. (758) 127)

Vasoactive intestinal polypeptide immunoreactive axon terminal
Bed nucleus of stria terminalis; Pituitary adenylate cyclase activating polypeptide immunoreactive axon terminal; Corticotropin releasing factor immunoreactive neuron; Immunohistochemistry; Electron microscopy; Rat (Kozicz, T. (767) 109)

Vasoactive intestinal polypeptide
Muscarinic receptor; Neuroblastoma cell; mRNA; Gene expression; Peptide processing (Kristensen, B. (775) 99)

HIOMT; Pineal; Melatonin; Neuropeptide Y; Pituitary adenylate cyclase activating polypeptide; Noradrenaline (Ribelayga, C. (777) 247)

Vasodilation
EPA-E; SHRSP; l-CBF; l-CGU; Hypertension; Prostaglandin (Katayama, Y. (761) 300)

Vasomotion
Gonadotropin releasing hormone; Female rat; Septal area; Preoptic area; Thermoregulation; Hot flush (Hosono, T. (754) 88)

Vasopressin
Supraoptic nucleus; Immunocytochemistry; Immediate early gene; Transcription factor; Oxytocin; Osmotic stimulation; Stress (Wang, K. (746) 117)

Hypertension; N^G-Nitro-L-arginine; Nitric oxide (Paczwa, P. (748) 51)

c-Fos; Static muscle contraction; Oxytocin; Hypothalamus; Exercise pressor reflex; Cat (Li, J. (752) 45)

Rat; Circadian rhythm; Estrous cycle; Feedback; Vasoactive intestinal peptide (Van der Beek, E.M. (755) 101)

Pilocarpine; Seizure; Vasopressin V_2-receptor (Croiset, G. (759) 18)

Lateral septum; Social recognition; Object recognition; V1-receptor; Habituation; Rat (Everts, H.G.J. (760) 1)

Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Immunocytochemistry; In situ hybridization; Hypothalamus (Shioda, S. (765) 81)

Adrenocorticotropin (ACTH); Adrenocorticotropin; Corticosterone; Corticotropin releasing factor; Corticotropin releasing hormone; Estradiol; Testosterone (Ogilvie, K.M. (766) 19)

Amygdala; Central amygdaloid nucleus; Neuron activity; Brain slice (Lu, Y.-F. (768) 266)

Stress; Corticotropin; Sensitization; Acoustic startle reflex (Pelton, G.H. (778) 381)

Vasopressin neuron
Oxytocin neuron; Glutamate receptor; NMDA; AMPA; Supraoptic nucleus (Richardson, C.M. (767) 158)

Vasopressin V_2-receptor
Pilocarpine; Seizure; Vasopressin (Croiset, G. (759) 18)

Vasospasm
Subarachnoid hemorrhage; Nitric oxide; Cerebral blood flow; Cyclic GMP; Rat (Yamamoto, S. (757) 1)

Venous tone
Mean circulatory filling pressure; Blood pressure; Heart rate (Martin, D.S. (756) 106)

Ventilation
Nucleus tractus solitarius; Signal transduction; Respiratory control; Hypoxia; Protein kinase C (Gozal, D. (774) 246)

Ventral cochlear nucleus
c-Fos; JunB; Dorsal cochlear nucleus; Inferior colliculus; Deprivation; Repetitive stimulation (Keilmann, A. (753) 291)

Ventral hippocampal commissure
Acetylcholine; Atropine; Hippocampus; CA1; LTP; Medial septal area; Current source density analysis (Markevich, V. (754) 95)

Ventral hippocampus
Passive avoidance; Acquisition; Consolidation; Retrieval; Tetrodotoxin functional inactivation (Ambrogi Lorenzini, C.G. (768) 242)

Ventral mesencephalic-striatal co-culture
Parkinson's disease; Papaverine; Tetrahydropapaverine; Dimethoxyphenylethylamine (DMPEA); 1-Methyl-4-phenylpyridinium ion (MPP^+) (Goto, K. (754) 260)

Ventral noradrenergic bundle
Electrical stimulus; Amygdala; Hypothalamo-pituitary-adrenal axis; Negative feedback (Weidenfeld, J. (754) 187)

Ventral pallidum
Substantia innominata; GABA; Dopamine; Anterograde tracing; *Phaseolus vulgaris*-leucoagglutinin (Gaykema, R.P.A. (747) 173)

Microdialysis; Dopamine; Cocaine; 6-Hydroxydopamine; Conditioned place preference; Locomotion; Nucleus accumbens (Gong, W. (754) 103)

Ventral posterolateral nucleus
Kidney; Visceroception; Posterior complex; Viscera (Horn, A.C. (763) 47)

Ventral respiratory group
Bötzinger complex; Nucleus retrofacialis; Respiratory control; DL-Homocysteic acid; Expiration-related medullary neurons; Rabbit; Expiratory activity (Bongianni, F. (749) 1)

Spontaneous augmented breath; Dorsal respiratory group; Inspiratory neuron; Expiratory neuron; Extracellular recording (Takeda, M. (749) 95)

Vomiting; Respiratory center; Pre-Bötzinger complex; Inspiratory neuron (Fukuda, H. (763) 30)

Abdominal muscle; Diaphragm; Upper airway; Swallowing; Vomiting (Umezaki, T. (769) 347)

Ventral striatum
Acetylcholine release; Morphine; Kainic acid; Olfactory tubercle; Caudate-putamen; Dorsal striatum; Dopamine; Serotonin (Guevara, B.H. (749) 139)

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Brain growth; Nicotine; Glucose; Glucose transport; Glut 1; Glut 3 (Eckstein, L.W. (103) 59)

Alternative mRNA splicing
Glycine receptor subunit; Gephyrin; Embryonal carcinoma cell line P19; Neuronal differentiation in vitro; Glial cells (Heck, S. (98) 211)

Alternative splicing
Apo-dystrophin 1; Dp71; Nervous system development; Duchenne muscular dystrophy; (Human) (Ceccarini, M. (103) 77)

Altitude
ECoG; Behavioral state; Cerebral blood flow; Cerebral oxygen consumption; Hypoxia; Llama fetus (Blanco, C.E. (104) 137)

Amacrine
Retina; Enkephalin; Somatostatin; Neurotensin; Development (Yang, D.S. (101) 57)

Amacrine cell
Ganglion cell; Interplexiform cell; Retinal development (Casini, G. (99) 131)

In situ hybridization; Immunohistochemistry; Neuronal plasticity; Inner plexiform layer; Inner nuclear layer (Kapfhammer, J.P. (101) 257)

Amino acid
Fasting; Dopamine; 5-HIAA; Brain microdialysis; Neonatal rat (Ishida, A. (104) 131)

γ-Aminobutyric acid
Status epilepticus; Pilocarpine; Hippocampus; Cortex (Sankar, R. (98) 60)

Newt; Retina; Regeneration; Synaptogenesis; Immunohistochemistry; Whole-cell patch-clamp; High-pressure liquid chromatography (Chiba, C. (98) 204)

GABA transporter; Interneuron; Astrocyte; Ontogeny; Cerebral cortex; Hippocampus (Yan, X.-X. (99) 1)

γ-Aminobutyric acid A receptor
Cerebellum; Transplantation; Graft; In situ hybridization; *N*-Methyl-D-aspartate receptor (Sommer, C. (102) 225)

Aminopeptidase
Enkephalin; Cerebellum; Development; Enzyme; Subcellular distribution (De Gandarias, J.M. (99) 66)

AMPA
Lateralization; Chick embryo; Muscimol; MK-801; Development (Johnston, A.N.B. (103) 83)

AMPA receptor
Development; Kainate receptor; Quantitative PCR; Regulation; RNA editing; Tissue culture (Paschen, W. (98) 271)

Amphetamine
Basal ganglia; Benzodiazepine, prenatal; κ-Opioid receptor; Ontogeny; Opioid; Preprodynorphin mRNA (Inderbitzin, S. (98) 114)

Neonatal lesion; Hippocampus; Ibotenic acid; Stereotypy; Apomorphine; Dopamine (Wood, G.K. (101) 17)

Amphotericin B
Development; Rat; Hippocampus; CA1 pyramidal neuron; Calcium current; Patch clamp (Kortekaas, P. (101) 139)

Anamniote
Calcium; Development; Fish; Immunocytochemistry; Olfactory receptor cells (Portcros, A. (100) 101)

Androgen
Aromatase; Estrogen; Cell culture; Neurite outgrowth; Differentiation; Androgen receptor; Colocalization (Beyer, C. (98) 74)

Androgen manipulation
Sexual dimorphism; Catecholamine; Rat brain; Differentiation (Siddiqui, A. (98) 247)

Androgen receptor
Aromatase; Androgen; Estrogen; Cell culture; Neurite outgrowth; Differentiation; Colocalization (Beyer, C. (98) 74)

Angiogenesis
Developing brain; Microvascular permeability; Vascular endothelial growth factor (Ment, L.R. (100) 52)

Adrenergic receptor; In situ hybridization; Thalamus; Basal ganglia; Cerebellum (Winzer-Serhan, U.H. (100) 90)

Animal model
Febrile seizure; Epilepsy; Hyperthermia; Infant; Rat; Development; EEG (Baram, T.Z. (98) 265)

Anterior chamber
Sympathetic nervous system; Denervation; Iris; Reinnervation; Superior cervical ganglion; Orbit; Transplant (Hiebert, J.M. (100) 35)

Antibody
Long-term depression; Hippocampus; CA3; Development; Plasticity; Nerve growth factor (Ruberti, F. (101) 295)

Antidromic response
Spreading depression; Locus coeruleus; Development; Negative feedback; α_2-Adrenoceptor (Fujii, Y. (104) 91)

Anti-NGF
Sex difference in CNS; ChAT; Cholinergic system development (Ricceri, L. (101) 273)

Antinociception
Serotonin; 5-HT_3 receptor; Spinal cord; Development; Rat (Giordano, J. (98) 142)

Apo-dystrophin 1
Dp71; Nervous system development; Alternative splicing; Duchenne muscular dystrophy; (Human) (Ceccarini, M. (103) 77)

Apomorphine
Neonatal lesion; Hippocampus; Ibotenic acid; Stereotypy; Amphetamine; Dopamine (Wood, G.K. (101) 17)

Apoptosis
Insulin-like growth factor I; Purkinje cell; *pcd* mouse (Zhang, W. (98) 164)

Natural cell death; Substantia nigra; Dopaminergic; Developmental; Parkinson's disease (Oo, T.F. (98) 191)

Cerebellar granule cell; In vitro survival; Neurotrophic agent; Excitotoxicity; NMDA receptor (Ciani, E. (99) 112)

Astroglia; Vasoactive intestinal peptide; Neurotrophic factor neurotrophin; Cerebral cortex (Gozes, I. (99) 167)

Brain development; Choline deficient; Diet; Hippocampus; Cortex; PC12 cell; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Wortmannin; Brain-derived neurotrophic factor (BDNF); High potassium; Ca^{2+} influx; TrkB (Shimoke, K. (101) 197)

Motoneurone; NMDA receptor; Glutamate receptor; Neonate; Axotomy (Hughes, S. (102) 13)

Neuron death; Oxidative stress; Free radical; Glutathione; Protein synthesis; Chick embryo; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

APV / DNQX
Tissue culture; Neocortex; Organotypic slice; Dendritic morphology; Bioelectric activity (Baker, R.E. (104) 31)

Arcuate nucleus
Neuroendocrine; Suprachiasmatic nucleus; Circadian; Glutamate receptor; Presynaptic; Metabotropic (Ghosh, P.K. (102) 1)

N-methyl-D-aspartate; Monosodium glutamate; MK-801; DNQX (Smyth, C.E. (104) 153)

Area 17
NMDA receptor; Synaptogenesis; Receptor clustering; Subplate neurons; Ocular dominance plasticity (Aoki, C. (98) 41)

Area dentata
Hippocampal formation; Granule cell; Development; Intracellular filling; Neurobiotin (Yan, W. (98) 177)

Aromatase
Androgen; Estrogen; Cell culture; Neurite outgrowth; Differentiation; Androgen receptor; Colocalization (Beyer, C. (98) 74)

Aspartate
Glutamate; NMDA; Mannitol; Blood–CSF barrier; Neonate (Al-Sarraf, H. (102) 47)

Glutamate; Blood–brain barrier; Cerebrospinal fluid; Mannitol; Age (Al-Sarraf, H. (102) 127)

Perinatal asphyxia; Dopamine; Glutamate; Neostriatum; Substantia nigra; Ventral tegmental area; Nucleus accumbens; Rat (Chen, Y. (104) 19)

Astrocyte
γ-Aminobutyric acid; GABA transporter; Interneuron; Ontogeny; Cerebral cortex; Hippocampus (Yan, X.-X. (99) 1)

Microglia; Oligodendrocyte; Gliogenesis; Lipocortin-1; S100-β (Zhang, M.-Z. (101) 27)

Ferret; Microglia; Oligodendrocyte; Subplate; Gliogenesis (Berman, N.E.J. (101) 149)

Midline radial glia; Glial fibrillary acidic protein; Vimentin; Transitin (Cole, G.J. (101) 225)

Respiration; Cell death; Extracellular matrix; Neurite; Synaptophysin (Gressens, P. (103) 21)

Na^+; K^+-ATPase; K^+; Voltage-sensitive Na^+ channel (Takahashi, S. (104) 111)

Astrocyte development
Glial fibrillary acidic protein; Protein phosphorylation; Tryptic phosphopeptide map; Ca^{2+}/calmodulin-dependent protein kinase (Leal, R.B. (104) 1)

Glial fibrillary acidic protein; Protein phosphorylation; Calcineurin; FK506; Calcium ion (Vinadé, L. (104) 11)

Astroglia
Apoptosis; Vasoactive intestinal peptide; Neurotrophic factor neurotrophin; Cerebral cortex (Gozes, I. (99) 167)

Astrogliosis
Ciliary neurotrophic factor; Activated microglia; GFAP; ED1; S100α; PDGF-αR; CNTF-αR (Kahn, M.A. (98) 221)

α 1 subunit
$GABA_A$ receptor; Cortical development; Benzodiazepine receptor (Miranda, J.D. (99) 176)

K^+-ATPase
Astrocyte; Na^+; K^+; Voltage-sensitive Na^+ channel (Takahashi, S. (104) 111)

Auditory system
Lateral superior olive; Ontogeny; Rat; Intracellular labeling; Lucifer yellow (Kungel, M. (101) 107)

Autoradiography
Dopamine transporter; Development; WIN 35,248; Cocaine receptor; Caudate-putamen (Coulter, C.L. (104) 55)

Autoreceptor
Norepinephrine; Hypothalamus; Release; Uptake; Adolescence (Choi, S.J. (98) 134)

Axon
Dendrite; Neurite; Neurite branching; Hippocampal neuron; Protein kinase; Protein phosphatase; Phosphorylation (Audesirk, G. (102) 247)

Floor plate; Extracellular matrix; Integrin; TGF β; Pathfinding; Spinal cord; Danforth's short tail (Ohyama, K. (103) 143)

Axonal sprouting
Fetal brain lesion; Neuroplasticity; Reinnervation (Carlson-Kuhta, P. (98) 234)

Axon guidance
Laminin; Olfactory; Vomeronasal; Adhesion (Raabe, E.H. (101) 187)

Axon withdrawal
Visual cortex; Horseradish peroxidase; Ultrastructure (Kim, J.H.Y. (102) 77)

Axotomy
Motoneurone; NMDA receptor; Glutamate receptor; Neonate; Apoptosis (Hughes, S. (102) 13)

Neuron death; Apoptosis; Oxidative stress; Free radical; Glutathione; Protein synthesis; Chick embryo; Retina; Ganglion cell (Castagné, V. (102) 285)

B

Basal forebrain
Nerve growth factor; Synaptogenesis; Immunohistochemistry (Conner, J.M. (101) 67)

Basal forebrain nuclei
Serotonergic innervation; Growth; Synapse; Immunocytochemistry (Dinopoulos, A. (99) 38)

Basal ganglia
Amphetamine; Benzodiazepine, prenatal; κ-Opioid receptor; Ontogeny; Opioid; Preprodynorphin mRNA (Inderbitzin, S. (98) 114)

Adrenergic receptor; In situ hybridization; Angiogenesis; Thalamus; Cerebellum (Winzer-Serhan, U.H. (100) 90)

Basal lamina
HNK-1; Chondroitin sulfate proteoglycan; *Xenopus*; Skin; Epidermis; Sensory innervation; Selective innervation (Somasekhar, T. (99) 208)

Behavioral state
ECoG; Cerebral blood flow; Cerebral oxygen consumption; Hypoxia; Llama fetus; Altitude (Blanco, C.E. (104) 137)

Benzodiazepine, prenatal
Amphetamine; Basal ganglia; κ-Opioid receptor; Ontogeny; Opioid; Preprodynorphin mRNA (Inderbitzin, S. (98) 114)

Benzodiazepine receptor
$GABA_A$ receptor; α1 subunit; Cortical development (Miranda, J.D. (99) 176)

Bicuculline
Hyperthermia; GABA; Thiosemicarbazide; Muscimol; Seizure; Threshold; Duration; Adenosine (Fukuda, M. (104) 197)

β_2-integrin
Lymphocyte function-associated antigen-1 alpha; Intercellular adhesion molecule-1; Immunoglobulin superfamily; Tomato lectin histochemistry; Blood vessel (Dalmau, I. (103) 163)

Bioelectric activity
Tissue culture; Neocortex; Organotypic slice; Dendritic morphology; APV/DNQX (Baker, R.E. (104) 31)

Blood–brain barrier
Blood–retina barrier; Glucose transporter; HT7; Tight junction; Chicken; Pecten oculi (Liebner, S. (100) 205)

Aspartate; Glutamate; Cerebrospinal fluid; Mannitol; Age (Al-Sarraf, H. (102) 127)

Blood–CSF barrier
Aspartate; Glutamate; NMDA; Mannitol; Neonate (Al-Sarraf, H. (102) 47)

Blood–retina barrier
Blood–brain barrier; Glucose transporter; HT7; Tight junction; Chicken; Pecten oculi (Liebner, S. (100) 205)

Blood vessel
Lymphocyte function-associated antigen-1 alpha; Intercellular adhesion molecule-1; β_2-integrin; Immunoglobulin superfamily; Tomato lectin histochemistry (Dalmau, I. (103) 163)

BODIPY pirenzepine
Cortical neuron; α_1 Adrenoceptor; Muscarinic M_1 receptor; BODIPY prazosin; Receptor expression; Receptor regulation; Confocal microscopy (Wang, Y. (102) 35)

BODIPY prazosin
Cortical neuron; α_1 Adrenoceptor; Muscarinic M_1 receptor; BODIPY pirenzepine; Receptor expression; Receptor regulation; Confocal microscopy (Wang, Y. (102) 35)

Body weight
Neurological staggerer mutation; C57BL/6 mouse; Development; Motor ability; Ultrasound (Heuzé, P. (101) 81)

Bone morphogenetic protein
Dendrite; Leukemia inhibitory factor; Ciliary neurotrophic factor; Osteogenic protein-1; Sympathetic neuron (Guo, X. (104) 101)

Brain
Myelination; Fatty acid synthase; Acetyl-CoA carboxylase; Long-chain acyl-CoA synthase; Stearoyl-CoA desaturase (Garbay, B. (98) 197)

Hypoxia; Glutamate; NMDA; Development; Dextromethorphan; Seizure; Passive avoidance (Laroia, N. (100) 29)

Zinc; Zn-containing neuron; Development; Cerebellum (Sawashita, J. (102) 295)

Hepatocyte growth factor; cMet; In situ hybridization (Achim, C.L. (102) 299)

Fetal; Hypoxemia; Structure; Development; Hippocampus; Cerebral cortex; Cerebellum (Rees, S. (103) 103)

[^{3}H]Thymidine; Limbic system; Vimentin (Harman, A.M. (104) 41)

Brain damage
Development; Hypoxia-ischemia (Towfighi, J. (100) 149)

Brain-derived neurotrophic factor
Nerve growth factor; Neural transplantation; Parkinson's disease (Zhou, J. (100) 43)

Apoptosis; Wortmannin; High potassium; Ca^{2+} influx; TrkB (Shimoke, K. (101) 197)

Brain development
Alcohol; Catecholamine; Cocaethylene; Cocaine; Indoleamine; Neuroteratogen; Rat (Chen, W.-J.A. (100) 220)

Apoptosis; Choline deficient; Diet; Hippocampus; Cortex; PC12 cell; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Cocaine; Dexamethasone; Glucocorticoid; Paroxetine; Serotonin; Transporter (McGrath, K.E. (104) 209)

Brain growth
Nicotine; Alcohol (ethanol); Glucose; Glucose transport; Glut 1; Glut 3 (Eckstein, L.W. (103) 59)

Brain lesion
Calcium binding protein; Corticospinal tract; Development; Plasticity (Clowry, G.J. (102) 197)

Brain mapping
Dopamine D_1 receptor; c-*fos*; Immediate-early gene; ^{125}I-SCH 23982; In situ hybridization; Ontogeny; Fetus (Shearman, L.P. (102) 105)

Brain microdialysis
Fasting; Dopamine; 5-HIAA; Amino acid; Neonatal rat (Ishida, A. (104) 131)

Brain / retinal blood barrier
C-6 glioma; Human retinal endothelial cell; Tissue culture; Growth factor; Glutamate (Spoerri, P.E. (104) 205)

Brainstem
Development; Gustatory; Taste; Nucleus of the solitary tract; Nucleus tractus solitarius; Sensory; Morphometry (Renehan, W.E. (102) 231)

Brainstem slice
Whole-cell patch-clamp recording; Superior olivary complex; Medial nucleus of the trapezoid body; Synapse maturation; Picrotoxin; Cyanotriphenylborate (Kungel, M. (102) 157)

Brn-3a
Transcription factor; Chicken; Quantitative PCR; Spinal ganglion; Trigeminal ganglion; NGF; NT-3 (Lindeberg, J. (100) 169)

Bromodeoxyuridine
Reptile; Turtle; Neuronal migration; [^{3}H]Thymidine; Electron microscopy (Pérez-Cañellas, M.M. (101) 125)

Brown Norway
Stress-hyporesponsive period; Aging; Rat; Maternal deprivation; ACTH; Corticosterone (Workel, J.O. (103) 199)

α-Bungarotoxin receptor
Nicotinic receptor; Muscarinic receptor; Human brain; Hippocampus; Entorhinal cortex; Development; Aging (Court, J.A. (101) 93)

Bupropion
Dopamine; Development/Ontogeny; Microdialysis; Dopamine reuptake; Neostriatum (Gazzara, R.A. (100) 139)

Buspirone
Hippocampal formation; Intracellular filling; Neurobiotin; Development; NAN-190 (Yan, W. (98) 185)

C

CA3
Long-term depression; Hippocampus; Development; Plasticity; Nerve growth factor; Antibody (Ruberti, F. (101) 295)

Ca^{2+}/calmodulin-dependent protein kinase
Glial fibrillary acidic protein; Protein phosphorylation; Tryptic phosphopeptide map; Astrocyte development (Leal, R.B. (104) 1)

L-type voltage-dependent Ca^{2+} channel
GABA; Neuronal survival; Striatal neuron; $GABA_A$ receptor; Development (Ikeda, Y. (98) 253)

Caffeine
Passive avoidance; Ontogeny; Gender; Learning; Memory (Fisher, S. (98) 145)

Ca^{2+} influx
Apoptosis; Wortmannin; Brain-derived neurotrophic factor (BDNF); High potassium; TrkB (Shimoke, K. (101) 197)

Cajal-Retzius cells
Development; Microgyria; Ectopia; Neocortex; Freezing lesion (Supèr, H. (98) 9)

Calbindin
Accessory optic system; Retinal afferent; Retinal termination zone; Differential cell growth; Parvalbumin; Inhibitory neuron (Wahle, P. (99) 72)

Development; Mesencephalon; Immunohistochemistry; Parvalbumin; Calretinin (Alfahel-Kakunda, A. (103) 9)

Calbindin-D_{28k}
Hypothalamus; Development; Rat; Glucocorticoid; Sexual differentiation; Western analysis; Fetal (Lephart, E.D. (100) 117)

Calcium binding protein; Human cerebellum; Development; Calretinin; Parvalbumin (Yew, D.T. (103) 37)

Calcineurin
Glial fibrillary acidic protein; Protein phosphorylation; FK506; Astrocyte development; Calcium ion (Vinadé, L. (104) 11)

Calcium
Anamniote; Development; Fish; Immunocytochemistry; Olfactory receptor cells (Porteros, A. (100) 101)

Retina; Development; Nitrendipine; L-type VSCC (Capela, A. (104) 63)

Calcium binding protein
Brain lesion; Corticospinal tract; Development; Plasticity (Clowry, G.J. (102) 197)

Human cerebellum; Development; Calretinin; Calbindin D28K; Parvalbumin (Yew, D.T. (103) 37)

Calcium channel
Proton; Sodium channel; Rat embryo; Spinal cord; Neuron (Li, Y.-X. (102) 261)

Calcium current
Development; Rat; Hippocampus; CA1 pyramidal neuron; Patch clamp; Amphotericin B (Kortekaas, P. (101) 139)

Calcium ion
Glial fibrillary acidic protein; Protein phosphorylation; Calcineurin; FK506; Astrocyte development (Vinadé, L. (104) 11)

Calcium-sensing receptor
Rat hippocampus; Western analysis; Northern analysis; In situ hybridization; Immunohistochemistry (Chattopadhyay, N. (100) 13)

Calcium uptake
Preproenkephalin; Kainic acid; Status epilepticus; Hippocampus; Development; Rat (Friedman, L.K. (101) 287)

Calretinin
Development; Mesencephalon; Immunohistochemistry; Calbindin; Parvalbumin (Alfahel-Kakunda, A. (103) 9)

Calcium binding protein; Human cerebellum; Development; Calbindin D28K; Parvalbumin (Yew, D.T. (103) 37)

CA1 pyramidal neuron
Development; Rat; Hippocampus; Calcium current; Patch clamp; Amphotericin B (Kortekaas, P. (101) 139)

Carbachol
Fetal behavioral state; Scopolamine; L-5-Hydroxytryptophan; Vasoactive intestinal peptide; Fetal breathing movement; Electrocortical activity (Morrison, J.L. (103) 1)

Carbonic anhydrase
Cerebellum; Purkinje cell; *Lurcher* (Nógrádi, A. (98) 91)

Carbonic anhydrase II
Choroid plexus; Spaceflight; Gravity; Ezrin; Electron microscopy; Immunocytochemistry (Mani-Ponset, L. (99) 187)

Carbon monoxide
Hippocampus; Guinea pig; Ontogeny; Ethanol (Cook, M.N. (101) 283)

Catecholamine
Sexual dimorphism; Androgen manipulation; Rat brain; Differentiation (Siddiqui, A. (98) 247)

Alcohol; Brain development; Cocaethylene; Cocaine; Indoleamine; Neuroteratogen; Rat (Chen, W.-J.A. (100) 220)

Caudate-putamen
Methamphetamine; Neurotoxicity; GFAP; Dopamine; Serotonin; Development (Cappon, G.D. (103) 155)

Dopamine transporter; Development; WIN 35,248; Cocaine receptor; Autoradiography (Coulter, C.L. (104) 55)

C57BL/6 mouse
Neurological staggerer mutation; Development; Body weight; Motor ability; Ultrasound (Heuzé, P. (101) 81)

Cell adhesion molecule
Chick retinal development; R-cognin mRNA; Protein disulfide isomerase (Phillips, J.L. (104) 143)

Cell–cell interaction
FAL; SSEA-1; Subplate; Radial glia (Ashwell, K.W.S. (100) 143)

Cell culture
Aromatase; Androgen; Estrogen; Neurite outgrowth; Differentiation; Androgen receptor; Colocalization (Beyer, C. (98) 74)

Pineal; Retina; Rhodopsin; Iodopsin; Differentiation; quail (Araki, M. (104) 71)

Cell death
Development; Neocortex; Meningeal cell; Pioneer neuron; Trophic dependence; Neuronal migration (Supèr, H. (98) 15)

Colchicine; Chick embryo; Neuronal death; Retrograde influence; Development (Primi, M.-P. (99) 259)

Adrenal steroid receptor; Dentate gyrus; Development; TUNEL; RU28362 (Gould, E. (101) 265)

Astrocyte; Respiration; Extracellular matrix; Neurite; Synaptophysin (Gressens, P. (103) 21)

Dentate gyrus; Adrenal steroid; Corticosterone; NMDA receptor; Development (Gould, E. (103) 91)

Cell differentiation
Human rhombencephalon; Primary culture; Serotonin-neuron; Morphological parameter; Morphometric analysis (Levallois, C. (99) 243)

Cell proliferation
Mutant; Embryo; Mouse; Neural tube defect; Spina bifida; Morphogenesis; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Central nervous system
HoxB5; Target gene; DNA binding; SPI3 gene (Safaei, R. (100) 5)

Cerebellar granule cell
In vitro survival; Neurotrophic agent; Excitotoxicity; Apoptosis; NMDA receptor (Ciani, E. (99) 112)

Tubulin; Glutamylation; Acetylation; Tyrosination; Neuritogenesis; In vitro (Przyborski, S.A. (100) 133)

Cerebellum
Heterozygous staggerer; Mutant mouse; Aging; Purkinje cells (Hadj-Sahraoui, N. (98) 1)

Purkinje cell; *Lurcher*; Carbonic anhydrase (Nógrádi, A. (98) 91)

Learning; Memory; Granule cell; Irradiation; Rat (Le Marec, N. (99) 20)

Enkephalin; Development; Aminopeptidase; Enzyme; Subcellular distribution (De Gandarias, J.M. (99) 66)

IGF-I; Survival; Differentiation; Mouse; Granule cell (Lin, X. (99) 234)

Lurcher mutant; Motor coordination; Swimming; Visuomotor coordination; Equilibrium (Thullier, F. (100) 22)

Adrenergic receptor; In situ hybridization; Angiogenesis; Thalamus; Basal ganglia (Winzer-Serhan, U.H. (100) 90)

Transplantation; Graft; In situ hybridization; *N*-Methyl-D-aspartate receptor; γ-Aminobutyric acid A receptor (Sommer, C. (102) 225)

Zinc; Zn-containing neuron; Brain; Development (Sawashita, J. (102) 295)

Fetal; Hypoxemia; Brain; Structure; Development; Hippocampus; Cerebral cortex (Rees, S. (103) 103)

Cerebral blood flow
ECoG; Behavioral state; Cerebral oxygen consumption; Hypoxia; Llama fetus; Altitude (Blanco, C.E. (104) 137)

Cerebral cortex
γ-Aminobutyric acid; GABA transporter; Interneuron; Astrocyte; Ontogeny; Hippocampus (Yan, X.-X. (99) 1)

Apoptosis; Astroglia; Vasoactive intestinal peptide; Neurotrophic factor neurotrophin (Gozes, I. (99) 167)

Fetal; Hypoxemia; Brain; Structure; Development; Hippocampus; Cerebellum (Rees, S. (103) 103)

Cerebral oxygen consumption
ECoG; Behavioral state; Cerebral blood flow; Hypoxia; Llama fetus; Altitude (Blanco, C.E. (104) 137)

Cerebral vessel
ICAM-1; ICAM-2; PECAM; VCAM-1; Human fetal microglia; Colonisation (Rezaie, P. (104) 175)

Cerebrospinal fluid
Aspartate; Glutamate; Blood–brain barrier; Mannitol; Age (Al-Sarraf, H. (102) 127)

c-fos
Dopamine D_1 receptor; Immediate-early gene; Brain mapping; ^{125}I-SCH 23982; In situ hybridization; Ontogeny; Fetus (Shearman, L.P. (102) 105)

C-6 glioma
Human retinal endothelial cell; Tissue culture; Growth factor; Glutamate; Brain/retinal blood barrier (Spoerri, P.E. (104) 205)

Chick
Learning; Passive avoidance; Development; Dark-incubated; Corticosterone (Sui, N. (101) 269)

Serotonin; Motoneuron; Development; In vitro (Hayashi, T. (102) 21)

Chick embryo
Colchicine; Neuronal death; Cell death; Retrograde influence; Development (Primi, M.-P. (99) 259)

Neuron death; Apoptosis; Oxidative stress; Free radical; Glutathione; Protein synthesis; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Lateralization; Muscimol; AMPA; MK-801; Development (Johnston, A.N.B. (103) 83)

Chicken
Transcription factor; Brn-3a; Quantitative PCR; Spinal ganglion; Trigeminal ganglion; NGF; NT-3 (Lindeberg, J. (100) 169)

Blood–brain barrier; Blood–retina barrier; Glucose transporter; HT7; Tight junction; Pecten oculi (Liebner, S. (100) 205)

Chick retinal development
Cell adhesion molecule; R-cognin mRNA; Protein disulfide isomerase (Phillips, J.L. (104) 143)

Chloride channel
Glycine; Gamma aminobutyric acid; Zinc; Single channel (Virginio, C. (98) 30)

Choline
Brain development; Apoptosis; Choline deficient; Diet; Hippocampus; Cortex; PC12 cell; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Choline acetyltransferase
Transplantation; Graft; Nitric oxide; Nitric oxide synthase; Neuropeptide Y; Nucleus basalis magnocellularis (NBM) (Shoham, S. (99) 155)

Cholinesterase; Inner nuclear layer; Neurotransmitter; Retinal cell type (Reiss, Y. (100) 62)

Sex difference in CNS; Anti-NGF; Cholinergic system development (Ricceri, L. (101) 273)

Choline deficient
Brain development; Apoptosis; Diet; Hippocampus; Cortex; PC12 cell; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Cholinergic enzyme
Peptide; proNGF; Rat brain; Development (Clos, J. (99) 267)

Cholinergic neuronal differentiation
Neuroblastoma; LA-N-5; Neuropeptide; Neurotrophic factor; Neural crest; Retinoic acid (Hill, D.P. (102) 53)

Cholinergic system
Immunohistochemistry; Development; Purkinje cells; Monoclonal antibody (Domínguez del Toro, E. (98) 125)

Cholinergic system development
Sex difference in CNS; ChAT; Anti-NGF (Ricceri, L. (101) 273)

Cholinesterase
Choline acetyltransferase; Inner nuclear layer; Neurotransmitter; Retinal cell type (Reiss, Y. (100) 62)

Chondroitin sulfate proteoglycan
HNK-1; *Xenopus*; Skin; Epidermis; Sensory innervation; Basal lamina; Selective innervation (Somasekhar, T. (99) 208)

Choroid plexus
Spaceflight; Gravity; Carbonic anhydrase II; Ezrin; Electron microscopy; Immunocytochemistry (Mani-Ponset, L. (99) 187)

Prostaglandin E_2; Prostaglandin $F_{2\alpha}$; Prostaglandin transport and catabolism; Fetus; Newborn; Adult; Pregnancy (Krunic, N. (100) 82)

Chromogranin
Proteolysis; Neuropeptide; Prohormone convertase; Processing; Prenatal; Postnatal; Immunoreactivity (Leitner, B. (100) 161)

Ciliary neurotrophic factor
Astrogliosis; Activated microglia; GFAP; ED1; S100α; PDGF-αR; CNTF-αR (Kahn, M.A. (98) 221)

Dendrite; Leukemia inhibitory factor; Osteogenic protein-1; Sympathetic neuron; Bone morphogenetic protein (Guo, X. (104) 101)

Circadian
Neuroendocrine; Suprachiasmatic nucleus; Arcuate nucleus; Glutamate receptor; Presynaptic; Metabotropic (Ghosh, P.K. (102) 1)

Clarke's nucleus
Marsupial; Regeneration; Sacral/coccygeal ventrolateral nucleus; Spinal border cell; Stilling's nucleus (Terman, J.R. (102) 309)

Climbing fibre
Development; Purkinje cell; IGF-I; Olivocerebellar projection; Growth factor (Sherrard, R.M. (98) 102)

CNTF-α R
Ciliary neurotrophic factor; Astrogliosis; Activated microglia; GFAP; ED1; S100α; PDGF-αR (Kahn, M.A. (98) 221)

Cocaethylene
Alcohol; Brain development; Catecholamine; Cocaine; Indoleamine; Neuroteratogen; Rat (Chen, W.-J.A. (100) 220)

Cocaine
Alcohol; Brain development; Catecholamine; Cocaethylene; Indoleamine; Neuroteratogen; Rat (Chen, W.-J.A. (100) 220)

Epilepsy; Electrophysiology; Hippocampus; Prenatal; Rat (Baraban, S.C. (102) 189)

Brain development; Dexamethasone; Glucocorticoid; Paroxetine; Serotonin; Transporter (McGrath, K.E. (104) 209)

Cocaine receptor
Dopamine transporter; Development; WIN 35,248; Caudate-putamen; Autoradiography (Coulter, C.L. (104) 55)

Coculture
Neocortex; Organotypic explant; Rapid Golgi; Quantitative morphology; Dendrite/axon (Baker, R.E. (98) 21)

Coexistence
Tyrosine hydroxylase; Serotonin; Raphe nucleus; Newborn; Laboratory shrew (Karasawa, N. (99) 121)

Cognition
Neonatal rat; NMDA receptor; D-Cycloserine; HA-966; Adult rat (Wangen, K. (99) 126)

Colchicine
Chick embryo; Neuronal death; Cell death; Retrograde influence; Development (Primi, M.-P. (99) 259)

Colocalization
Aromatase; Androgen; Estrogen; Cell culture; Neurite outgrowth; Differentiation; Androgen receptor (Beyer, C. (98) 74)

Colonisation
ICAM-1; ICAM-2; PECAM; VCAM-1; Human fetal microglia; Cerebral vessel (Rezaie, P. (104) 175)

Confocal microscopy
Cortical neuron; α_1 Adrenoceptor; Muscarinic M_1 receptor; BODIPY prazosin; BODIPY pirenzepine; Receptor expression; Receptor regulation (Wang, Y. (102) 35)

Congenital fibrosis of extraocular muscle
Extraocular muscle; Oculomotor; Abducens; Motoneuron; *Wnt-1*; Myogenesis; Duane syndrome (Porter, J.D. (100) 121)

Cortex
Status epilepticus; Pilocarpine; γ-Aminobutyric acid; Hippocampus (Sankar, R. (98) 60)

Brain development; Apoptosis; Choline deficient; Diet; Hippocampus; PC12 cell; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Cortical development
$GABA_A$ receptor; α1 subunit; Benzodiazepine receptor (Miranda, J.D. (99) 176)

Cortical neuron
α_1 Adrenoceptor; Muscarinic M_1 receptor; BODIPY prazosin; BODIPY pirenzepine; Receptor expression; Receptor regulation; Confocal microscopy (Wang, Y. (102) 35)

Corticospinal tract
Brain lesion; Calcium binding protein; Development; Plasticity (Clowry, G.J. (102) 197)

Corticosteroid receptor
ACTH-(4–9) analog ORG 2766; Hippocampus; Neonatal peptide treatment (Nyakas, C. (99) 142)

Corticosterone
Learning; Passive avoidance; Development; Dark-incubated; Chick (Sui, N. (101) 269)

Cell death; Dentate gyrus; Adrenal steroid; NMDA receptor; Development (Gould, E. (103) 91)

Stress-hyporesponsive period; Brown Norway; Aging; Rat; Maternal deprivation; ACTH (Workel, J.O. (103) 199)

Critical period
GABA; Protein expression; Plasticity (Guo, Y. (103) 127)

Culture
Synaptogenesis; Silent synapse; Glutamatergic synapse; NMDA receptor; Non-NMDA receptor; Development (Kiyosue, K. (99) 201)

Cultured muscle
Thrombin; Acetyl choline; Hirudin; Tetrodotoxin; Gene expression; Protease nexin I (Glazner, G.W. (99) 148)

Cyanotriphenylborate
Whole-cell patch-clamp recording; Brainstem slice; Superior olivary complex; Medial nucleus of the trapezoid body; Synapse maturation; Picrotoxin (Kungel, M. (102) 157)

D-Cycloserine
Neonatal rat; NMDA receptor; HA-966; Adult rat; Cognition (Wangen, K. (99) 126)

Cytoskeletal protein
Actin-binding protein; Development; Growth factor; Nervous system; Signal transduction (Zhang, F.X. (99) 216)

D

Danforth's short tail
Floor plate; Extracellular matrix; Integrin; TGF β; Axon; Pathfinding; Spinal cord (Ohyama, K. (103) 143)

Dark-incubated
Learning; Passive avoidance; Development; Corticosterone; Chick (Sui, N. (101) 269)

Decerebrate
Dopamine; SCH 23390; Spiperone; Locomotion; Development; Air-stepping (McCrea, A.E. (100) 130)

Decrease in proliferation
1,25-Dihydroxyvitamin D_3; Neuroblastoma; NGF (Veenstra, T.D. (99) 53)

Delta opioid
Development; Dopamine receptor; Nucleus accumbens; Postnatal exposure; Rat; SNC 80; Striatum (Shieh, G.-J. (103) 209)

Dendrite
Axon; Neurite; Neurite branching; Hippocampal neuron; Protein kinase; Protein phosphatase; Phosphorylation (Audesirk, G. (102) 247)

Leukemia inhibitory factor; Ciliary neurotrophic factor; Osteogenic protein-1; Sympathetic neuron; Bone morphogenetic protein (Guo, X. (104) 101)

Dendrite/axon
Neocortex; Organotypic explant; Coculture; Rapid Golgi; Quantitative morphology (Baker, R.E. (98) 21)

Dendritic morphology
Tissue culture; Neocortex; Organotypic slice; APV/DNQX; Bioelectric activity (Baker, R.E. (104) 31)

Denervation
Sympathetic nervous system; Iris; Reinnervation; Superior cervical ganglion; Orbit; Anterior chamber; Transplant (Hiebert, J.M. (100) 35)

Densitometry
Neurotoxicity; Puberty; Neuroendocrine (Natarajan, M. (102) 97)

Zinc-positive presynaptic bouton; Ultrastructural maturation; Stereological study; Absolute numbers estimation (Sanchez-Andres, J.V. (103) 171)

Dentate granule cell
Development; Hippocampal formation; Electrotonic coupling; Intracellular filling; Neurobiotin (Haring, J.H. (103) 205)

Dentate gyrus
Adrenal steroid receptor; Development; Cell death; TUNEL; RU28362 (Gould, E. (101) 265)

Cell death; Adrenal steroid; Corticosterone; NMDA receptor; Development (Gould, E. (103) 91)

Deprivation
Strabismus; Visual system development; Oculomotor (Garraghty, P.E. (100) 127)

Developing brain
Angiogenesis; Microvascular permeability; Vascular endothelial growth factor (Ment, L.R. (100) 52)

Development
Cajal-Retzius cells; Microgyria; Ectopia; Neocortex; Freezing lesion (Supèr, H. (98) 9)

Neocortex; Meningeal cell; Pioneer neuron; Cell death; Trophic dependence; Neuronal migration (Supèr, H. (98) 15)

Differential display; Rat; In situ hybridization; Forebrain; Telencephalon; Hippocampus (Hatanaka, Y. (98) 65)

Climbing fibre; Purkinje cell; IGF-I; Olivocerebellar projection; Growth factor (Sherrard, R.M. (98) 102)

Immunohistochemistry; Purkinje cells; Monoclonal antibody; Cholinergic system (Domínguez del Toro, E. (98) 125)

Serotonin; 5-HT_3 receptor; Spinal cord; Antinociception; Rat (Giordano, J. (98) 142)

Hippocampal formation; Area dentata; Granule cell; Intracellular filling; Neurobiotin (Yan, W. (98) 177)

Hippocampal formation; Intracellular filling; Neurobiotin; Buspirone; NAN-190 (Yan, W. (98) 185)

GABA; Neuronal survival; Striatal neuron; $GABA_A$ receptor; L-type voltage-dependent Ca^{2+} channel (Ikeda, Y. (98) 253)

Motoneuron; Muscle; Nerve terminal; Sprouting; Synapse (Sheard, P.W. (98) 259)

Febrile seizure; Animal model; Epilepsy; Hyperthermia; Infant; Rat; EEG (Baram, T.Z. (98) 265)

AMPA receptor; Kainate receptor; Quantitative PCR; Regulation; RNA editing; Tissue culture (Paschen, W. (98) 271)

Motoneurone; Nerve:muscle interaction; Paralysis (Greensmith, L. (98) 281)

Retinogeniculate; Tetrodotoxin; Pattern formation; Retinal ganglion cell; Spontaneous activity (Cramer, K.S. (98) 287)

Stem cell; Striatum; Progenitor (Rosser, A.E. (98) 291)

Hair cell; Spiral lamina growth (Mu, M.Y. (99) 29)

Enkephalin; Cerebellum; Aminopeptidase; Enzyme; Subcellular distribution (De Gandarias, J.M. (99) 66)

Rab3A; Vestibular afferent; Vestibular sensory cell; Synaptophysin; Immunocytochemistry; Rat; Mouse (Dechesne, C.J. (99) 103)

Synaptogenesis; Silent synapse; Glutamatergic synapse; NMDA receptor; Non-NMDA receptor; Culture (Kiyosue, K. (99) 201)

Actin-binding protein; Cytoskeletal protein; Growth factor; Nervous system; Signal transduction (Zhang, F.X. (99) 216)

Sex differentiation; Steroid receptor; Nitric oxide; Premammillary nucleus; Double staining (Yokosuka, M. (99) 226)

Colchicine; Chick embryo; Neuronal death; Cell death; Retrograde influence (Primi, M.-P. (99) 259)

Peptide; proNGF; Cholinergic enzyme; Rat brain (Clos, J. (99) 267)

Epilepsy; Seizure; Neuropathology; Rabbit; Hippocampus; Pilocarpine (Thompson, K. (100) 1)

Hypoxia; Glutamate; NMDA; Dextromethorphan; Seizure; Passive avoidance; Brain (Laroia, N. (100) 29)

Anamniote; Calcium; Fish; Immunocytochemistry; Olfactory receptor cells (Porteros, A. (100) 101)

Mouse; Myelin-associated glycoprotein; Oligodendrocyte; Neural co-culture; Embryonal carcinoma P19 cell; RT-PCR (Matsuda, Y. (100) 110)

Hypothalamus; Calbindin-D_{28k}; Rat; Glucocorticoid; Sexual differentiation; Western analysis; Fetal (Lephart, E.D. (100) 117)

Dopamine; SCH 23390; Spiperone; Locomotion; Air-stepping; Decerebrate (McCrea, A.E. (100) 130)

Brain damage; Hypoxia-ischemia (Towfighi, J. (100) 149)

POMC mRNA; Sex difference; SHRP (Halasz, I. (100) 198)

Proline; Hippocampus; Glutamate; Uptake (Cohen, S.M. (100) 230)

Brain development; Apoptosis; Choline deficient; Diet; Hippocampus; Cortex; PC12 cell; Choline; Rat; Memory (Holmes-McNary, M.Q. (101) 9)

Retina; Amacrine; Enkephalin; Somatostatin; Neurotensin (Yang, D.S. (101) 57)

Neurological staggerer mutation; C57BL/6 mouse; Body weight; Motor ability; Ultrasound (Heuzé, P. (101) 81)

Nicotinic receptor; α-Bungarotoxin receptor; Muscarinic receptor; Human brain; Hippocampus; Entorhinal cortex; Aging (Court, J.A. (101) 93)

Rat; Hippocampus; CA1 pyramidal neuron; Calcium current; Patch clamp; Amphotericin B (Kortekaas, P. (101) 139)

Lateral geniculate nucleus; Ifenprodil; Ferret; Retinal activity; NMDA receptor; Tetrodotoxin; Slice preparation (Ramoa, A.S. (101) 165)

Nitric oxide; Ontogeny; Plasticity (García-Ojeda, E. (101) 177)

Enkephalin; Tyrosine hydroxylase; Syrian hamster; Adrenal; Striatum; Solution hybridization; Splanchnic nerve (Franklin, S.O. (101) 239)

Low iodine diet; Methylmercaptoimidazole; Thyroid hormone; Myelin basic protein; Internal capsule (Martinez-Galan, J.R. (101) 249)

Adrenal steroid receptor; Dentate gyrus; Cell death; TUNEL; RU28362 (Gould, E. (101) 265)

Learning; Passive avoidance; Dark-incubated; Corticosterone; Chick (Sui, N. (101) 269)

Preproenkephalin; Kainic acid; Status epilepticus; Hippocampus; Calcium uptake; Rat (Friedman, L.K. (101) 287)

Long-term depression; Hippocampus; CA3; Plasticity; Nerve growth factor; Antibody (Ruberti, F. (101) 295)

Visual cortex; Serotonin receptor; Long-term potentiation; Long-term depression; Plasticity (Kojic, L. (101) 299)

Serotonin; Motoneuron; Chick; In vitro (Hayashi, T. (102) 21)

Gastrin-releasing peptide; Satiety; Feeding; α-Methyl histamine; Imetit (Kent, P. (102) 87)

Ependymal cell; Subcommissural organ; Reissner's fiber; Primary chick spinal cord cell culture; Neuronal survival; Neuronal aggregation (Monnerie, H. (102) 167)

Brain lesion; Calcium binding protein; Corticospinal tract; Plasticity (Clowry, G.J. (102) 197)

Vomeronasal organ; Olfactory; Sensory pathway; Topographic projection; Opossum; *Monodelphis domestica*; G protein (Jia, C. (102) 209)

Gustatory; Taste; Nucleus of the solitary tract; Nucleus tractus solitarius; Sensory; Brainstem; Morphometry (Renehan, W.E. (102) 231)

Retina; Synaptophysin; Synapsin I; Syntaxin; Immunocytochemistry; Rat (Dhingra, N.K. (102) 267)

Zinc; Zn-containing neuron; Brain; Cerebellum (Sawashita, J. (102) 295)

Mesencephalon; Immunohistochemistry; Calbindin; Parvalbumin; Calretinin (Alfahel-Kakunda, A. (103) 9)

Calcium binding protein; Human cerebellum; Calretinin; Calbindin D28K; Parvalbumin (Yew, D.T. (103) 37)

Rat; Motoneuron; Oxidative enzyme (Sheard, P.W. (103) 67)

Lateralization; Chick embryo; Muscimol; AMPA; MK-801 (Johnston, A.N.B. (103) 83)

Cell death; Dentate gyrus; Adrenal steroid; Corticosterone; NMDA receptor (Gould, E. (103) 91)

Gerbil; Outer hair cell; K channel; Afferent innervation; Neural induction; Neurotrophic factor (He, D.Z.Z. (103) 95)

Fetal; Hypoxemia; Brain; Structure; Hippocampus; Cerebral cortex; Cerebellum (Rees, S. (103) 103)

Methamphetamine; Neurotoxicity; GFAP; Dopamine; Serotonin; Caudate-putamen (Cappon, G.D. (103) 155)

Striatum; Pallidum; Graft; GABA receptor; Transplantation (Liste, I. (103) 185)

Hippocampal formation; Dentate granule cell; Electrotonic coupling; Intracellular filling; Neurobiotin (Haring, J.H. (103) 205)

Delta opioid; Dopamine receptor; Nucleus accumbens; Postnatal exposure; Rat; SNC 80; Striatum (Shieh, G.-J. (103) 209)

Dopamine transporter; WIN 35,248; Cocaine receptor; Caudate-putamen; Autoradiography (Coulter, C.L. (104) 55)

Retina; Calcium; Nitrendipine; L-type VSCC (Capela, A. (104) 63)

Spreading depression; Locus coeruleus; Antidromic response; Negative feedback; α_2-Adrenoceptor (Fujii, Y. (104) 91)

Ifenprodil; Pentylenetetrazole-induced seizure; NMDA receptor; Mouse (Tsuda, M. (104) 201)

Developmental
Natural cell death; Apoptosis; Substantia nigra; Dopaminergic; Parkinson's disease (Oo, T.F. (98) 191)

Developmental plasticity
Superior colliculus; Tectum; Vision; Experience-dependent (Binns, K.E. (99) 263)

Development / Ontogeny
Dopamine; Microdialysis; Bupropion; Dopamine reuptake; Neostriatum (Gazzara, R.A. (100) 139)

Dexamethasone
Brain development; Cocaine; Glucocorticoid; Paroxetine; Serotonin; Transporter (McGrath, K.E. (104) 209)

Dextromethorphan
Hypoxia; Glutamate; NMDA; Development; Seizure; Passive avoidance; Brain (Laroia, N. (100) 29)

Diaphragm
P-type calcium channel; Neuromuscular transmission; Maturation; ω-Agatoxin IVa (Breugelmans, J.G. (101) 277)

Diet
Brain development; Apoptosis; Choline deficient; Hippocampus; Cortex; PC12 cell; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Differential cell growth
Accessory optic system; Retinal afferent; Retinal termination zone; Calbindin; Parvalbumin; Inhibitory neuron (Wahle, P. (99) 72)

Differential display
Development; Rat; In situ hybridization; Forebrain; Telencephalon; Hippocampus (Hatanaka, Y. (98) 65)

Differentiation
Aromatase; Androgen; Estrogen; Cell culture; Neurite outgrowth; Androgen receptor; Colocalization (Beyer, C. (98) 74)

Sexual dimorphism; Androgen manipulation; Catecholamine; Rat brain (Siddiqui, A. (98) 247)

IGF-I; Survival; Mouse; Cerebellum; Granule cell (Lin, X. (99) 234)

Pineal; Retina; Rhodopsin; Iodopsin; Cell culture; quail (Araki, M. (104) 71)

1,25-Dihydroxyvitamin D_3
Neuroblastoma; Decrease in proliferation; NGF (Veenstra, T.D. (99) 53)

DNA binding
HoxB5; Target gene; Central nervous system; SPI3 gene (Safaei, R. (100) 5)

DNQX
N-methyl-D-aspartate; Monosodium glutamate; Arcuate nucleus; MK-801 (Smyth, C.E. (104) 153)

Dogfish embryo (*Scyliorhinus canicula*)
Floor plate; Flexural organ; Subcommissural organ; Immunocytochemistry (López-Avalos, M.D. (102) 69)

Dopamine
SCH 23390; Spiperone; Locomotion; Development; Air-stepping; Decerebrate (McCrea, A.E. (100) 130)

Development/Ontogeny; Microdialysis; Bupropion; Dopamine reuptake; Neostriatum (Gazzara, R.A. (100) 139)

Neonatal lesion; Hippocampus; Ibotenic acid; Stereotypy; Amphetamine; Apomorphine (Wood, G.K. (101) 17)

Nicotine; Monoamine; Prenatal period; Serotonin; Stress; Smoking; Pregnancy (Muneoka, K. (102) 117)

Ultrastructure; Immunocytochemistry (Antonopoulos, J. (102) 135)

Methamphetamine; Neurotoxicity; GFAP; Serotonin; Caudate-putamen; Development (Cappon, G.D. (103) 155)

Perinatal asphyxia; Aspartate; Glutamate; Neostriatum; Substantia nigra; Ventral tegmental area; Nucleus accumbens; Rat (Chen, Y. (104) 19)

Fasting; 5-HIAA; Amino acid; Brain microdialysis; Neonatal rat (Ishida, A. (104) 131)

Gestation; Macaque; Receptor autoradiography; Striatum; Substantia nigra (Fang, Y. (104) 163)

Dopamine D_1 receptor
c-*fos*; Immediate-early gene; Brain mapping; ^{125}I-SCH 23982; In situ hybridization; Ontogeny; Fetus (Shearman, L.P. (102) 105)

Dopamine receptor
Delta opioid; Development; Nucleus accumbens; Postnatal exposure; Rat; SNC 80; Striatum (Shieh, G.-J. (103) 209)

Dopamine reuptake
Dopamine; Development/Ontogeny; Microdialysis; Bupropion; Neostriatum (Gazzara, R.A. (100) 139)

Dopaminergic
Natural cell death; Apoptosis; Substantia nigra; Developmental; Parkinson's disease (Oo, T.F. (98) 191)

Dopamine transporter
Development; WIN 35,248; Cocaine receptor; Caudate-putamen; Autoradiography (Coulter, C.L. (104) 55)

Double staining
Sex differentiation; Steroid receptor; Nitric oxide; Premammillary nucleus; Development (Yokosuka, M. (99) 226)

Dp71
Apo-dystrophin 1; Nervous system development; Alternative splicing; Duchenne muscular dystrophy; (Human) (Ceccarini, M. (103) 77)

Duane syndrome
Extraocular muscle; Oculomotor; Abducens; Motoneuron; *Wnt-1*; Myogenesis; Congenital fibrosis of extraocular muscle (Porter, J.D. (100) 121)

Duchenne muscular dystrophy
Apo-dystrophin 1; Dp71; Nervous system development; Alternative splicing; (Human) (Ceccarini, M. (103) 77)

Duration
Hyperthermia; GABA; Thiosemicarbazide; Bicuculine; Muscimol; Seizure; Threshold; Adenosine (Fukuda, M. (104) 197)

E

ECoG
Behavioral state; Cerebral blood flow; Cerebral oxygen consumption; Hypoxia; Llama fetus; Altitude (Blanco, C.E. (104) 137)

Ectopia
Cajal-Retzius cells; Development; Microgyria; Neocortex; Freezing lesion (Supèr, H. (98) 9)

ED1
Ciliary neurotrophic factor; Astrogliosis; Activated microglia; GFAP; S100α; PDGF-αR; CNTF-αR (Kahn, M.A. (98) 221)

EEG
Febrile seizure; Animal model; Epilepsy; Hyperthermia; Infant; Rat; Development (Baram, T.Z. (98) 265)

Electrocortical activity
Fetal behavioral state; Carbachol; Scopolamine; L-5-Hydroxytryptophan; Vasoactive intestinal peptide; Fetal breathing movement (Morrison, J.L. (103) 1)

Electron microscopy
Choroid plexus; Spaceflight; Gravity; Carbonic anhydrase II; Ezrin; Immunocytochemistry (Mani-Ponset, L. (99) 187)

Rat; Mouse; Epidermal growth factor; Fibroblast growth factor; Stem cell; Progenitor; Proliferation (Svendsen, C.N. (99) 253)

Reptile; Turtle; Neuronal migration; Bromodeoxyuridine; [^{3}H]Thymidine (Pérez-Cañellas, M.M. (101) 125)

Electrophysiology
Cocaine; Epilepsy; Hippocampus; Prenatal; Rat (Baraban, S.C. (102) 189)

Electrotonic coupling
Development; Hippocampal formation; Dentate granule cell; Intracellular filling; Neurobiotin (Haring, J.H. (103) 205)

Embryo
Mutant; Mouse; Neural tube defect; Spina bifida; Cell proliferation; Morphogenesis; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Embryocarcinoma cell line P19
Metabotropic glutamate receptor; Glial cell; Neuronal differentiation in vitro; RT-PCR; In situ hybridization (Heck, S. (101) 85)

Embryo culture
Mutant; Embryo; Mouse; Neural tube defect; Spina bifida; Cell proliferation; Morphogenesis; Neurulation (Gerrelli, D. (102) 217)

Embryonal carcinoma
Neuronal cell-line; Neuronal polarity; Neurotransmitter release; Synaptic protein (Parnas, D. (101) 115)

Embryonal carcinoma cell line P19
Glycine receptor subunit; Gephyrin; Alternative mRNA splicing; Neuronal differentiation in vitro; Glial cells (Heck, S. (98) 211)

Embryonal carcinoma P19 cell
Mouse; Development; Myelin-associated glycoprotein; Oligodendrocyte; Neural co-culture; RT-PCR (Matsuda, Y. (100) 110)

Embryonic development
Adhesion; In situ hybridization; Regeneration; Plasticity; Polysialic acid; Olfaction (Phillips, G.R. (102) 143)

Energy metabolism
Hippocampal slice; Glutamate; Guinea pig; Ontogeny; Ischemia; Protein synthesis (Berger, R. (101) 49)

Enkephalin
Cerebellum; Development; Aminopeptidase; Enzyme; Subcellular distribution (De Gandarias, J.M. (99) 66)

Retina; Amacrine; Somatostatin; Neurotensin; Development (Yang, D.S. (101) 57)

Tyrosine hydroxylase; Syrian hamster; Adrenal; Striatum; Development; Solution hybridization; Splanchnic nerve (Franklin, S.O. (101) 239)

Entorhinal cortex
Nicotinic receptor; α-Bungarotoxin receptor; Muscarinic receptor; Human brain; Hippocampus; Development; Aging (Court, J.A. (101) 93)

Enzyme
Enkephalin; Cerebellum; Development; Aminopeptidase; Subcellular distribution (De Gandarias, J.M. (99) 66)

Ependymal cell
Subcommissural organ; Reissner's fiber; Primary chick spinal cord cell culture; Neuronal survival; Neuronal aggregation; Development (Monnerie, H. (102) 167)

Epidermal growth factor
Rat; Mouse; Fibroblast growth factor; Stem cell; Progenitor; Proliferation; Electron microscopy (Svendsen, C.N. (99) 253)

Epidermis
HNK-1; Chondroitin sulfate proteoglycan; *Xenopus*; Skin; Sensory innervation; Basal lamina; Selective innervation (Somasekhar, T. (99) 208)

Epilepsy
Febrile seizure; Animal model; Hyperthermia; Infant; Rat; Development; EEG (Baram, T.Z. (98) 265)

Development; Seizure; Neuropathology; Rabbit; Hippocampus; Pilocarpine (Thompson, K. (100) 1)

Cocaine; Electrophysiology; Hippocampus; Prenatal; Rat (Baraban, S.C. (102) 189)

Epileptogenesis
Hippocampus; Organotypic culture; Synaptogenesis; Spontaneous action potential (Nakagami, Y. (103) 99)

Equilibrium
Cerebellum; Lurcher mutant; Motor coordination; Swimming; Visuomotor coordination (Thullier, F. (100) 22)

Estrogen
Aromatase; Androgen; Cell culture; Neurite outgrowth; Differentiation; Androgen receptor; Colocalization (Beyer, C. (98) 74)

Ethanol
Carbon monoxide; Hippocampus; Guinea pig; Ontogeny (Cook, M.N. (101) 283)

Excitotoxicity
Cerebellar granule cell; In vitro survival; Neurotrophic agent; Apoptosis; NMDA receptor (Ciani, E. (99) 112)

Ibotenic acid; Kynurenic acid; Kynurenine; Neuroprotection; Ontogeny; Quinolinic acid (Ceresoli, G. (100) 73)

Experience-dependent
Superior colliculus; Tectum; Developmental plasticity; Vision (Binns, K.E. (99) 263)

Explant coculture
Subnucleus interpolaris; Voltage-dependent conductance; Rat trigeminal pathway; Pattern formation (Erzurumlu, R.S. (101) 37)

Extracellular matrix
Astrocyte; Respiration; Cell death; Neurite; Synaptophysin (Gressens, P. (103) 21)

Floor plate; Integrin; TGF β; Axon; Pathfinding; Spinal cord; Danforth's short tail (Ohyama, K. (103) 143)

Extraocular muscle
Oculomotor; Abducens; Motoneuron; *Wnt-1*; Myogenesis; Duane syndrome; Congenital fibrosis of extraocular muscle (Porter, J.D. (100) 121)

Ezrin
Choroid plexus; Spaceflight; Gravity; Carbonic anhydrase II; Electron microscopy; Immunocytochemistry (Mani-Ponset, L. (99) 187)

F

Facilitation
Hippocampus; Postnatal development; Mossy fiber; Lead neurotoxicity; Long-term potentiation; Paired-pulse stimulation; Inhibition (Gutowski, M. (98) 82)

FAL
Cell–cell interaction; SSEA-1; Subplate; Radial glia (Ashwell, K.W.S. (100) 143)

Fasting
Dopamine; 5-HIAA; Amino acid; Brain microdialysis; Neonatal rat (Ishida, A. (104) 131)

Fatty acid synthase
Brain; Myelination; Acetyl-CoA carboxylase; Long-chain acyl-CoA synthase; Stearoyl-CoA desaturase (Garbay, B. (98) 197)

Febrile seizure
Animal model; Epilepsy; Hyperthermia; Infant; Rat; Development; EEG (Baram, T.Z. (98) 265)

Feeding
Gastrin-releasing peptide; Satiety; Development; α-Methyl histamine; Imetit (Kent, P. (102) 87)

Ferret
Astrocyte; Microglia; Oligodendrocyte; Subplate; Gliogenesis (Berman, N.E.J. (101) 149)

Lateral geniculate nucleus; Ifenprodil; Retinal activity; Development; NMDA receptor; Tetrodotoxin; Slice preparation (Ramoa, A.S. (101) 165)

Fetal
Hypothalamus; Calbindin-D_{28k}; Development; Rat; Glucocorticoid; Sexual differentiation; Western analysis (Lephart, E.D. (100) 117)

Hypoxemia; Brain; Structure; Development; Hippocampus; Cerebral cortex; Cerebellum (Rees, S. (103) 103)

Fetal behavioral state
Carbachol; Scopolamine; L-5-Hydroxytryptophan; Vasoactive intestinal peptide; Fetal breathing movement; Electrocortical activity (Morrison, J.L. (103) 1)

Fetal brain lesion
Neuroplasticity; Reinnervation; Axonal sprouting (Carlson-Kuhta, P. (98) 234)

Fetal breathing movement
Fetal behavioral state; Carbachol; Scopolamine; L-5-Hydroxytryptophan; Vasoactive intestinal peptide; Electrocortical activity (Morrison, J.L. (103) 1)

Fetus
Choroid plexus; Prostaglandin E_2; Prostaglandin $F_{2\alpha}$; Prostaglandin transport and catabolism; Newborn; Adult; Pregnancy (Krunic, N. (100) 82)

Neurotensin; Parvalbumin; Hippocampus; Presubiculum; Retrosplenial cortex; Monkey (Berger, B. (101) 207)

Dopamine D_1 receptor; c-*fos*; Immediate-early gene; Brain mapping; ^{125}I-SCH 23982; In situ hybridization; Ontogeny (Shearman, L.P. (102) 105)

Fibroblast growth factor
Rat; Mouse; Epidermal growth factor; Stem cell; Progenitor; Proliferation; Electron microscopy (Svendsen, C.N. (99) 253)

Fish
Anamniote; Calcium; Development; Immunocytochemistry; Olfactory receptor cells (Porteros, A. (100) 101)

FK506
Glial fibrillary acidic protein; Protein phosphorylation; Calcineurin; Astrocyte development; Calcium ion (Vinadé, L. (104) 11)

Flexural organ
Floor plate; Subcommissural organ; Dogfish embryo (*Scyliorhinus canicula*); Immunocytochemistry (López-Avalos, M.D. (102) 69)

Floor plate
Flexural organ; Subcommissural organ; Dogfish embryo (*Scyliorhinus canicula*); Immunocytochemistry (López-Avalos, M.D. (102) 69)

Extracellular matrix; Integrin; TGF β; Axon; Pathfinding; Spinal cord; Danforth's short tail (Ohyama, K. (103) 143)

Forebrain
Development; Differential display; Rat; In situ hybridization; Telencephalon; Hippocampus (Hatanaka, Y. (98) 65)

Free radical
Neuron death; Apoptosis; Oxidative stress; Glutathione; Protein synthesis; Chick embryo; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Freezing lesion
Cajal-Retzius cells; Development; Microgyria; Ectopia; Neocortex (Supèr, H. (98) 9)

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GABA
Neuronal survival; Striatal neuron; $GABA_A$ receptor; L-type voltage-dependent Ca^{2+} channel; Development (Ikeda, Y. (98) 253)

Protein expression; Plasticity; Critical period (Guo, Y. (103) 127)

Hyperthermia; Thiosemicarbazide; Bicuculine; Muscimol; Seizure; Threshold; Duration; Adenosine (Fukuda, M. (104) 197)

GABA receptor
Striatum; Pallidum; Graft; Development; Transplantation (Liste, I. (103) 185)

$GABA_A$ receptor
GABA; Neuronal survival; Striatal neuron; L-type voltage-dependent Ca^{2+} channel; Development (Ikeda, Y. (98) 253)

α1 subunit; Cortical development; Benzodiazepine receptor (Miranda, J.D. (99) 176)

Ventromedial hypothalamus; Hippocampus; Muscimol binding; Sexual differentiation; Gonadal hormone (Clark, A.S. (103) 195)

GABA transporter
γ-Aminobutyric acid; Interneuron; Astrocyte; Ontogeny; Cerebral cortex; Hippocampus (Yan, X.-X. (99) 1)

Gamma aminobutyric acid
Glycine; Chloride channel; Zinc; Single channel (Virginio, C. (98) 30)

Ganglion cell
Amacrine cell; Interplexiform cell; Retinal development (Casini, G. (99) 131)

Neuron death; Apoptosis; Oxidative stress; Free radical; Glutathione; Protein synthesis; Chick embryo; Retina; Axotomy (Castagné, V. (102) 285)

Superior colliculus; Peptide; Retinal development (Fontanesi, G. (103) 119)

Ganglion cell layer
Albino; Photoreceptor; Retinal development; Tyrosinase gene; Melanin (Jeffery, G. (99) 95)

Gastrin-releasing peptide
Satiety; Feeding; Development; α-Methyl histamine; Imetit (Kent, P. (102) 87)

Gender
Caffeine; Passive avoidance; Ontogeny; Learning; Memory (Fisher, S. (98) 145)

Gene expression
Thrombin; Acetyl choline; Hirudin; Cultured muscle; Tetrodotoxin; Protease nexin I (Glazner, G.W. (99) 148)

Gephyrin
Glycine receptor subunit; Alternative mRNA splicing; Embryonal carcinoma cell line P19; Neuronal differentiation in vitro; Glial cells (Heck, S. (98) 211)

Gerbil
Outer hair cell; Development; K channel; Afferent innervation; Neural induction; Neurotrophic factor (He, D.Z.Z. (103) 95)

Gestation
Dopamine; Macaque; Receptor autoradiography; Striatum; Substantia nigra (Fang, Y. (104) 163)

GFAP
Ciliary neurotrophic factor; Astrogliosis; Activated microglia; ED1; S100α; PDGF-αR; CNTF-αR (Kahn, M.A. (98) 221)

Opossum; *Monodelphis domestica*; Spinal cord development; Neurofilament; Vimentin (Breckenridge, L.J. (103) 47)

Methamphetamine; Neurotoxicity; Dopamine; Serotonin; Caudate-putamen; Development (Cappon, G.D. (103) 155)

Glial cells
Glycine receptor subunit; Gephyrin; Alternative mRNA splicing; Embryonal carcinoma cell line P19; Neuronal differentiation in vitro (Heck, S. (98) 211)

Metabotropic glutamate receptor; Embryocarcinoma cell line P19; Neuronal differentiation in vitro; RT-PCR; In situ hybridization (Heck, S. (101) 85)

Glial fibrillary acidic protein
Midline radial glia; Astrocyte; Vimentin; Transitin (Cole, G.J. (101) 225)

Protein phosphorylation; Tryptic phosphopeptide map; Ca^{2+}/calmodulin-dependent protein kinase; Astrocyte development (Leal, R.B. (104) 1)

Protein phosphorylation; Calcineurin; FK506; Astrocyte development; Calcium ion (Vinadé, L. (104) 11)

Gliogenesis
Microglia; Astrocyte; Oligodendrocyte; Lipocortin-1; S100-β (Zhang, M.-Z. (101) 27)

Ferret; Astrocyte; Microglia; Oligodendrocyte; Subplate (Berman, N.E.J. (101) 149)

Glucocorticoid
Hypothalamus; Calbindin-D_{28k}; Development; Rat; Sexual differentiation; Western analysis; Fetal (Lephart, E.D. (100) 117)

Brain development; Cocaine; Dexamethasone; Paroxetine; Serotonin; Transporter (McGrath, K.E. (104) 209)

Glucose
Brain growth; Nicotine; Alcohol (ethanol); Glucose transport; Glut 1; Glut 3 (Eckstein, L.W. (103) 59)

Glucose deprivation
Mature and immature rat; Hippocampal slice; Population spike; High energy phosphate; Lactate; β-Hydroxy-butyrate (OHBA) (Wada, H. (101) 1)

Glucose transport
Brain growth; Nicotine; Alcohol (ethanol); Glucose; Glut 1; Glut 3 (Eckstein, L.W. (103) 59)

Glucose transporter
Blood–brain barrier; Blood–retina barrier; HT7; Tight junction; Chicken; Pecten oculi (Liebner, S. (100) 205)

Glut 1
Brain growth; Nicotine; Alcohol (ethanol); Glucose; Glucose transport; Glut 3 (Eckstein, L.W. (103) 59)

Glut 3
Brain growth; Nicotine; Alcohol (ethanol); Glucose; Glucose transport; Glut 1 (Eckstein, L.W. (103) 59)

Glutamate
Hypoxia; NMDA; Development; Dextromethorphan; Seizure; Passive avoidance; Brain (Laroia, N. (100) 29)

Proline; Hippocampus; Uptake; Development (Cohen, S.M. (100) 230)

Hippocampal slice; Guinea pig; Ontogeny; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (101) 49)

Aspartate; NMDA; Mannitol; Blood–CSF barrier; Neonate (Al-Sarraf, H. (102) 47)

Aspartate; Blood–brain barrier; Cerebrospinal fluid; Mannitol; Age (Al-Sarraf, H. (102) 127)

Perinatal asphyxia; Dopamine; Aspartate; Neostriatum; Substantia nigra; Ventral tegmental area; Nucleus accumbens; Rat (Chen, Y. (104) 19)

C-6 glioma; Human retinal endothelial cell; Tissue culture; Growth factor; Brain/retinal blood barrier (Spoerri, P.E. (104) 205)

Glutamate receptor
Neuroendocrine; Suprachiasmatic nucleus; Arcuate nucleus; Circadian; Presynaptic; Metabotropic (Ghosh, P.K. (102) 1)

Motoneurone; NMDA receptor; Neonate; Axotomy; Apoptosis (Hughes, S. (102) 13)

Glutamatergic synapse
Synaptogenesis; Silent synapse; NMDA receptor; Non-NMDA receptor; Culture; Development (Kiyosue, K. (99) 201)

Glutamylation
Tubulin; Acetylation; Tyrosination; Cerebellar granule cell; Neuritogenesis; In vitro (Przyborski, S.A. (100) 133)

Glutathione
Neuron death; Apoptosis; Oxidative stress; Free radical; Protein synthesis; Chick embryo; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Glycine
Gamma aminobutyric acid; Chloride channel; Zinc; Single channel (Virginio, C. (98) 30)

Glycine receptor subunit
Gephyrin; Alternative mRNA splicing; Embryonal carcinoma cell line P19; Neuronal differentiation in vitro; Glial cells (Heck, S. (98) 211)

Gonadal hormone
$GABA_A$ receptor; Ventromedial hypothalamus; Hippocampus; Muscimol binding; Sexual differentiation (Clark, A.S. (103) 195)

G protein
Vomeronasal organ; Olfactory; Sensory pathway; Topographic projection; Development; Opossum; *Monodelphis domestica* (Jia, C. (102) 209)

Graft
Transplantation; Nitric oxide; Nitric oxide synthase; Neuropeptide Y; Choline acetyltransferase (ChAT); Nucleus basalis magnocellularis (NBM) (Shoham, S. (99) 155)

Cerebellum; Transplantation; In situ hybridization; *N*-Methyl-D-aspartate receptor; γ-Aminobutyric acid A receptor (Sommer, C. (102) 225)

Striatum; Pallidum; GABA receptor; Development; Transplantation (Liste, I. (103) 185)

Granule cell
Hippocampal formation; Area dentata; Development; Intracellular filling; Neurobiotin (Yan, W. (98) 177)

Learning; Memory; Cerebellum; Irradiation; Rat (Le Marec, N. (99) 20)

IGF-I; Survival; Differentiation; Mouse; Cerebellum (Lin, X. (99) 234)

Gravity
Choroid plexus; Spaceflight; Carbonic anhydrase II; Ezrin; Electron microscopy; Immunocytochemistry (Mani-Ponset, L. (99) 187)

Growth
Serotonergic innervation; Basal forebrain nuclei; Synapse; Immunocytochemistry (Dinopoulos, A. (99) 38)

Growth cone
Adhesion molecule; Interference reflection microscopy; Neurite growth; Time-lapse video microscopy (Drazba, J. (100) 183)

Growth factor
Climbing fibre; Development; Purkinje cell; IGF-I; Olivocerebellar projection (Sherrard, R.M. (98) 102)

Actin-binding protein; Cytoskeletal protein; Development; Nervous system; Signal transduction (Zhang, F.X. (99) 216)

C-6 glioma; Human retinal endothelial cell; Tissue culture; Glutamate; Brain/retinal blood barrier (Spoerri, P.E. (104) 205)

Guinea pig
Hippocampal slice; Glutamate; Ontogeny; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (101) 49)

Carbon monoxide; Hippocampus; Ontogeny; Ethanol (Cook, M.N. (101) 283)

Gustatory
Development; Taste; Nucleus of the solitary tract; Nucleus tractus solitarius; Sensory; Brainstem; Morphometry (Renehan, W.E. (102) 231)

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HA-966
Neonatal rat; NMDA receptor; D-Cycloserine; Adult rat; Cognition (Wangen, K. (99) 126)

Hair cell
Development; Spiral lamina growth (Mu, M.Y. (99) 29)

Hepatocyte growth factor
cMet; Brain; In situ hybridization (Achim, C.L. (102) 299)

Heterozygous staggerer
Mutant mouse; Cerebellum; Aging; Purkinje cells (Hadj-Sahraoui, N. (98) 1)

5-HIAA
Fasting; Dopamine; Amino acid; Brain microdialysis; Neonatal rat (Ishida, A. (104) 131)

High energy phosphate
Mature and immature rat; Hippocampal slice; Population spike; Glucose deprivation; Lactate; β-Hydroxy-butyrate (OHBA) (Wada, H. (101) 1)

High potassium
Apoptosis; Wortmannin; Brain-derived neurotrophic factor (BDNF); Ca^{2+} influx; TrkB (Shimoke, K. (101) 197)

High-pressure liquid chromatography
Newt; Retina; Regeneration; Synaptogenesis; γ-Aminobutyric acid; Immunohistochemistry; Whole-cell patch-clamp (Chiba, C. (98) 204)

Hippocampal formation
Area dentata; Granule cell; Development; Intracellular filling; Neurobiotin (Yan, W. (98) 177)

Intracellular filling; Neurobiotin; Development; Buspirone; NAN-190 (Yan, W. (98) 185)

Development; Dentate granule cell; Electrotonic coupling; Intracellular filling; Neurobiotin (Haring, J.H. (103) 205)

Hippocampal neuron
Dendrite; Axon; Neurite; Neurite branching; Protein kinase; Protein phosphatase; Phosphorylation (Audesirk, G. (102) 247)

Hippocampal slice
Mature and immature rat; Population spike; High energy phosphate; Glucose deprivation; Lactate; β-Hydroxy-butyrate (OHBA) (Wada, H. (101) 1)

Glutamate; Guinea pig; Ontogeny; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (101) 49)

Hippocampus
Status epilepticus; Pilocarpine; γ-Aminobutyric acid; Cortex (Sankar, R. (98) 60)

Development; Differential display; Rat; In situ hybridization; Forebrain; Telencephalon (Hatanaka, Y. (98) 65)

Postnatal development; Mossy fiber; Lead neurotoxicity; Long-term potentiation; Paired-pulse stimulation; Facilitation; Inhibition (Gutowski, M. (98) 82)

γ-Aminobutyric acid; GABA transporter; Interneuron; Astrocyte; Ontogeny; Cerebral cortex (Yan, X.-X. (99) 1)

ACTH-(4–9) analog ORG 2766; Corticosteroid receptor; Neonatal peptide treatment (Nyakas, C. (99) 142)

Epilepsy; Development; Seizure; Neuropathology; Rabbit; Pilocarpine (Thompson, K. (100) 1)

Proline; Glutamate; Uptake; Development (Cohen, S.M. (100) 230)

Brain development; Apoptosis; Choline deficient; Diet; Cortex; PC12 cell; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Neonatal lesion; Ibotenic acid; Stereotypy; Amphetamine; Apomorphine; Dopamine (Wood, G.K. (101) 17)

Nicotinic receptor; α-Bungarotoxin receptor; Muscarinic receptor; Human brain; Entorhinal cortex; Development; Aging (Court, J.A. (101) 93)

Development; Rat; CA1 pyramidal neuron; Calcium current; Patch clamp; Amphotericin B (Kortekaas, P. (101) 139)

Neurotensin; Parvalbumin; Presubiculum; Retrosplenial cortex; Monkey; Fetus (Berger, B. (101) 207)

Carbon monoxide; Guinea pig; Ontogeny; Ethanol (Cook, M.N. (101) 283)

Preproenkephalin; Kainic acid; Status epilepticus; Calcium uptake; Development; Rat (Friedman, L.K. (101) 287)

Long-term depression; CA3; Development; Plasticity; Nerve growth factor; Antibody (Ruberti, F. (101) 295)

Cocaine; Epilepsy; Electrophysiology; Prenatal; Rat (Baraban, S.C. (102) 189)

Organotypic culture; Synaptogenesis; Spontaneous action potential; Epileptogenesis (Nakagami, Y. (103) 99)

Fetal; Hypoxemia; Brain; Structure; Development; Cerebral cortex; Cerebellum (Rees, S. (103) 103)

$GABA_A$ receptor; Ventromedial hypothalamus; Muscimol binding; Sexual differentiation; Gonadal hormone (Clark, A.S. (103) 195)

Hirudin
Thrombin; Acetyl choline; Cultured muscle; Tetrodotoxin; Gene expression; Protease nexin I (Glazner, G.W. (99) 148)

HNK-1
Chondroitin sulfate proteoglycan; *Xenopus*; Skin; Epidermis; Sensory innervation; Basal lamina; Selective innervation (Somasekhar, T. (99) 208)

Horseradish peroxidase
Visual cortex; Ultrastructure; Axon withdrawal (Kim, J.H.Y. (102) 77)

HoxB5
Target gene; Central nervous system; DNA binding; SPI3 gene (Safaei, R. (100) 5)

HT7
Blood–brain barrier; Blood–retina barrier; Glucose transporter; Tight junction; Chicken; Pecten oculi (Liebner, S. (100) 205)

[^{3}H]Thymidine
Reptile; Turtle; Neuronal migration; Bromodeoxyuridine; Electron microscopy (Pérez-Cañellas, M.M. (101) 125)

Brain; Limbic system; Vimentin (Harman, A.M. (104) 41)

5-HT_2 receptor
Adrenergic receptor; Isoproterenol; Neonate; Inverted-U curve (Langdon, P.E. (102) 291)

5-HT_3 receptor
Serotonin; Spinal cord; Development; Antinociception; Rat (Giordano, J. (98) 142)

Human brain
Nicotinic receptor; α-Bungarotoxin receptor; Muscarinic receptor; Hippocampus; Entorhinal cortex; Development; Aging (Court, J.A. (101) 93)

Human cerebellum
Calcium binding protein; Development; Calretinin; Calbindin D28K; Parvalbumin (Yew, D.T. (103) 37)

Human fetal microglia
ICAM-1; ICAM-2; PECAM; VCAM-1; Colonisation; Cerebral vessel (Rezaie, P. (104) 175)

Human retinal endothelial cell
C-6 glioma; Tissue culture; Growth factor; Glutamate; Brain/retinal blood barrier (Spoerri, P.E. (104) 205)

Human rhombencephalon
Primary culture; Serotonin-neuron; Morphological parameter; Morphometric analysis; Cell differentiation (Levallois, C. (99) 243)

β-Hydroxy-butyrate (OHBA)
Mature and immature rat; Hippocampal slice; Population spike; High energy phosphate; Glucose deprivation; Lactate (Wada, H. (101) 1)

L-5-Hydroxytryptophan
Fetal behavioral state; Carbachol; Scopolamine; Vasoactive intestinal peptide; Fetal breathing movement; Electrocortical activity (Morrison, J.L. (103) 1)

Hyperthermia
Febrile seizure; Animal model; Epilepsy; Infant; Rat; Development; EEG (Baram, T.Z. (98) 265)

GABA; Thiosemicarbazide; Bicuculine; Muscimol; Seizure; Threshold; Duration; Adenosine (Fukuda, M. (104) 197)

Hypothalamus
Norepinephrine; Release; Uptake; Autoreceptor; Adolescence (Choi, S.J. (98) 134)

Calbindin-D_{28k}; Development; Rat; Glucocorticoid; Sexual differentiation; Western analysis; Fetal (Lephart, E.D. (100) 117)

Hypoxemia
Fetal; Brain; Structure; Development; Hippocampus; Cerebral cortex; Cerebellum (Rees, S. (103) 103)

Hypoxia
Glutamate; NMDA; Development; Dextromethorphan; Seizure; Passive avoidance; Brain (Laroia, N. (100) 29)

ECoG; Behavioral state; Cerebral blood flow; Cerebral oxygen consumption; Llama fetus; Altitude (Blanco, C.E. (104) 137)

Hypoxia-ischemia
Development; Brain damage (Towfighi, J. (100) 149)

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Ibotenic acid
Excitotoxicity; Kynurenic acid; Kynurenine; Neuroprotection; Ontogeny; Quinolinic acid (Ceresoli, G. (100) 73)

Neonatal lesion; Hippocampus; Stereotypy; Amphetamine; Apomorphine; Dopamine (Wood, G.K. (101) 17)

ICAM-1
ICAM-2; PECAM; VCAM-1; Human fetal microglia; Colonisation; Cerebral vessel (Rezaie, P. (104) 175)

ICAM-2
ICAM-1; PECAM; VCAM-1; Human fetal microglia; Colonisation; Cerebral vessel (Rezaie, P. (104) 175)

Ifenprodil
Lateral geniculate nucleus; Ferret; Retinal activity; Development; NMDA receptor; Tetrodotoxin; Slice preparation (Ramoa, A.S. (101) 165)

Pentylenetetrazole-induced seizure; NMDA receptor; Development; Mouse (Tsuda, M. (104) 201)

IGF-I
Climbing fibre; Development; Purkinje cell; Olivocerebellar projection; Growth factor (Sherrard, R.M. (98) 102)

Survival; Differentiation; Mouse; Cerebellum; Granule cell (Lin, X. (99) 234)

Imetit
Gastrin-releasing peptide; Satiety; Feeding; Development; α-Methyl histamine (Kent, P. (102) 87)

Immediate-early gene
Dopamine D_1 receptor; c-*fos*; Brain mapping; ^{125}I-SCH 23982; In situ hybridization; Ontogeny; Fetus (Shearman, L.P. (102) 105)

Immunocytochemistry
Serotonergic innervation; Growth; Basal forebrain nuclei; Synapse (Dinopoulos, A. (99) 38)

Rab3A; Vestibular afferent; Vestibular sensory cell; Development; Synaptophysin; Rat; Mouse (Dechesne, C.J. (99) 103)

Choroid plexus; Spaceflight; Gravity; Carbonic anhydrase II; Ezrin; Electron microscopy (Mani-Ponset, L. (99) 187)

Anamniote; Calcium; Development; Fish; Olfactory receptor cells (Porteros, A. (100) 101)

Floor plate; Flexural organ; Subcommissural organ; Dogfish embryo (*Scyliorhinus canicula*) (López-Avalos, M.D. (102) 69)

Dopamine; Ultrastructure (Antonopoulos, J. (102) 135)

Retina; Development; Synaptophysin; Synapsin I; Syntaxin; Rat (Dhingra, N.K. (102) 267)

Immunoglobulin superfamily
Lymphocyte function-associated antigen-1 alpha; Intercellular adhesion molecule-1; β_2-integrin; Tomato lectin histochemistry; Blood vessel (Dalmau, I. (103) 163)

Immunohistochemistry
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Newt; Retina; Regeneration; Synaptogenesis; γ-Aminobutyric acid; Whole-cell patch-clamp; High-pressure liquid chromatography (Chiba, C. (98) 204)

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Nerve growth factor; Basal forebrain; Synaptogenesis (Conner, J.M. (101) 67)

In situ hybridization; Neuronal plasticity; Amacrine cell; Inner plexiform layer; Inner nuclear layer (Kapfhammer, J.P. (101) 257)

Development; Mesencephalon; Calbindin; Parvalbumin; Calretinin (Alfahel-Kakunda, A. (103) 9)

Immunoreactivity
Chromogranin; Proteolysis; Neuropeptide; Prohormone convertase; Processing; Prenatal; Postnatal (Leitner, B. (100) 161)

Indoleamine
Alcohol; Brain development; Catecholamine; Cocaethylene; Cocaine; Neuroteratogen; Rat (Chen, W.-J.A. (100) 220)

Infant
Febrile seizure; Animal model; Epilepsy; Hyperthermia; Rat; Development; EEG (Baram, T.Z. (98) 265)

Inhibition
Hippocampus; Postnatal development; Mossy fiber; Lead neurotoxicity; Long-term potentiation; Paired-pulse stimulation; Facilitation (Gutowski, M. (98) 82)

Inhibitory neuron
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Inner nuclear layer
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In situ hybridization; Immunohistochemistry; Neuronal plasticity; Amacrine cell; Inner plexiform layer (Kapfhammer, J.P. (101) 257)

Inner plexiform layer
In situ hybridization; Immunohistochemistry; Neuronal plasticity; Amacrine cell; Inner nuclear layer (Kapfhammer, J.P. (101) 257)

In situ hybridization
Development; Differential display; Rat; Forebrain; Telencephalon; Hippocampus (Hatanaka, Y. (98) 65)

Calcium-sensing receptor; Rat hippocampus; Western analysis; Northern analysis; Immunohistochemistry (Chattopadhyay, N. (100) 13)

Adrenergic receptor; Angiogenesis; Thalamus; Basal ganglia; Cerebellum (Winzer-Serhan, U.H. (100) 90)

Metabotropic glutamate receptor; Embryocarcinoma cell line P19; Glial cell; Neuronal differentiation in vitro; RT-PCR (Heck, S. (101) 85)

Immunohistochemistry; Neuronal plasticity; Amacrine cell; Inner plexiform layer; Inner nuclear layer (Kapfhammer, J.P. (101) 257)

Dopamine D_1 receptor; *c-fos*; Immediate-early gene; Brain mapping; ^{125}I-SCH 23982; Ontogeny; Fetus (Shearman, L.P. (102) 105)

Adhesion; Embryonic development; Regeneration; Plasticity; Polysialic acid; Olfaction (Phillips, G.R. (102) 143)

Cerebellum; Transplantation; Graft; *N*-Methyl-D-aspartate receptor; γ-Aminobutyric acid A receptor (Sommer, C. (102) 225)

Hepatocyte growth factor; cMet; Brain (Achim, C.L. (102) 299)

Insulin-like growth factor I
Apoptosis; Purkinje cell; *pcd* mouse (Zhang, W. (98) 164)

Integrin
Floor plate; Extracellular matrix; TGF β; Axon; Pathfinding; Spinal cord; Danforth's short tail (Ohyama, K. (103) 143)

Intercellular adhesion molecule-1
Lymphocyte function-associated antigen-1 alpha; β_2-integrin; Immunoglobulin superfamily; Tomato lectin histochemistry; Blood vessel (Dalmau, I. (103) 163)

Interference reflection microscopy
Growth cone; Adhesion molecule; Neurite growth; Time-lapse video microscopy (Drazba, J. (100) 183)

Internal capsule
Low iodine diet; Methylmercaptoimidazole; Thyroid hormone; Myelin basic protein; Development (Martinez-Galan, J.R. (101) 249)

Interneuron
γ-Aminobutyric acid; GABA transporter; Astrocyte; Ontogeny; Cerebral cortex; Hippocampus (Yan, X.-X. (99) 1)

Interplexiform cell
Amacrine cell; Ganglion cell; Retinal development (Casini, G. (99) 131)

Intracellular filling
Hippocampal formation; Area dentata; Granule cell; Development; Neurobiotin (Yan, W. (98) 177)

Hippocampal formation; Neurobiotin; Development; Buspirone; NAN-190 (Yan, W. (98) 185)

Development; Hippocampal formation; Dentate granule cell; Electrotonic coupling; Neurobiotin (Haring, J.H. (103) 205)

Intracellular labeling
Lateral superior olive; Ontogeny; Auditory system; Rat; Lucifer yellow (Kungel, M. (101) 107)

Inverted-U curve
Adrenergic receptor; 5-HT_2 receptor; Isoproterenol; Neonate (Langdon, P.E. (102) 291)

In vitro
Tubulin; Glutamylation; Acetylation; Tyrosination; Cerebellar granule cell; Neuritogenesis (Przyborski, S.A. (100) 133)

Serotonin; Motoneuron; Chick; Development (Hayashi, T. (102) 21)

In vitro survival
Cerebellar granule cell; Neurotrophic agent; Excitotoxicity; Apoptosis; NMDA receptor (Ciani, E. (99) 112)

Iodopsin
Pineal; Retina; Rhodopsin; Differentiation; Cell culture; quail (Araki, M. (104) 71)

Iris
Sympathetic nervous system; Denervation; Reinnervation; Superior cervical ganglion; Orbit; Anterior chamber; Transplant (Hiebert, J.M. (100) 35)

Irradiation
Learning; Memory; Cerebellum; Granule cell; Rat (Le Marec, N. (99) 20)

Ischemia
Hippocampal slice; Glutamate; Guinea pig; Ontogeny; Energy metabolism; Protein synthesis (Berger, R. (101) 49)

Isoproterenol
Adrenergic receptor; 5-HT_2 receptor; Neonate; Inverted-U curve (Langdon, P.E. (102) 291)

K

K^+
Astrocyte; Na^+; K^+-ATPase; Voltage-sensitive Na^+ channel (Takahashi, S. (104) 111)

Kainate receptor
AMPA receptor; Development; Quantitative PCR; Regulation; RNA editing; Tissue culture (Paschen, W. (98) 271)

Kainic acid
Preproenkephalin; Status epilepticus; Hippocampus; Calcium uptake; Development; Rat (Friedman, L.K. (101) 287)

K channel
Gerbil; Outer hair cell; Development; Afferent innervation; Neural induction; Neurotrophic factor (He, D.Z.Z. (103) 95)

Kynurenic acid
Excitotoxicity; Ibotenic acid; Kynurenine; Neuroprotection; Ontogeny; Quinolinic acid (Ceresoli, G. (100) 73)

Kynurenine
Excitotoxicity; Ibotenic acid; Kynurenic acid; Neuroprotection; Ontogeny; Quinolinic acid (Ceresoli, G. (100) 73)

L

Laboratory shrew
Tyrosine hydroxylase; Serotonin; Raphe nucleus; Coexistence; Newborn (Karasawa, N. (99) 121)

Lactate
Mature and immature rat; Hippocampal slice; Population spike; High energy phosphate; Glucose deprivation; β-Hydroxy-butyrate (OHBA) (Wada, H. (101) 1)

Laminin
Olfactory; Vomeronasal; Axon guidance; Adhesion (Raabe, E.H. (101) 187)

LA-N-5
Neuroblastoma; Cholinergic neuronal differentiation; Neuropeptide; Neurotrophic factor; Neural crest; Retinoic acid (Hill, D.P. (102) 53)

Lateral geniculate nucleus
Ifenprodil; Ferret; Retinal activity; Development; NMDA receptor; Tetrodotoxin; Slice preparation (Ramoa, A.S. (101) 165)

Lateralization
Chick embryo; Muscimol; AMPA; MK-801; Development (Johnston, A.N.B. (103) 83)

Lateral superior olive
Ontogeny; Auditory system; Rat; Intracellular labeling; Lucifer yellow (Kungel, M. (101) 107)

Lead neurotoxicity
Hippocampus; Postnatal development; Mossy fiber; Long-term potentiation; Paired-pulse stimulation; Facilitation; Inhibition (Gutowski, M. (98) 82)

Learning
Caffeine; Passive avoidance; Ontogeny; Gender; Memory (Fisher, S. (98) 145)

Memory; Cerebellum; Granule cell; Irradiation; Rat (Le Marec, N. (99) 20)

Passive avoidance; Development; Dark-incubated; Corticosterone; Chick (Sui, N. (101) 269)

Leukemia inhibitory factor
Dendrite; Ciliary neurotrophic factor; Osteogenic protein-1; Sympathetic neuron; Bone morphogenetic protein (Guo, X. (104) 101)

Limbic system
Brain; [^{3}H]Thymidine; Vimentin (Harman, A.M. (104) 41)

Lipocortin-1
Microglia; Astrocyte; Oligodendrocyte; Gliogenesis; S100-β (Zhang, M.-Z. (101) 27)

Llama fetus
ECoG; Behavioral state; Cerebral blood flow; Cerebral oxygen consumption; Hypoxia; Altitude (Blanco, C.E. (104) 137)

Locomotion
Dopamine; SCH 23390; Spiperone; Development; Air-stepping; Decerebrate (McCrea, A.E. (100) 130)

Locus coeruleus
Spreading depression; Development; Antidromic response; Negative feedback; α_2-Adrenoceptor (Fujii, Y. (104) 91)

Long-chain acyl-CoA synthase
Brain; Myelination; Fatty acid synthase; Acetyl-CoA carboxylase; Stearoyl-CoA desaturase (Garbay, B. (98) 197)

Long-term depression
Hippocampus; CA3; Development; Plasticity; Nerve growth factor; Antibody (Ruberti, F. (101) 295)

Visual cortex; Serotonin receptor; Long-term potentiation; Development; Plasticity (Kojic, L. (101) 299)

Long-term potentiation
Hippocampus; Postnatal development; Mossy fiber; Lead neurotoxicity; Paired-pulse stimulation; Facilitation; Inhibition (Gutowski, M. (98) 82)

Visual cortex; Serotonin receptor; Long-term depression; Development; Plasticity (Kojic, L. (101) 299)

Low iodine diet
Methylmercaptoimidazole; Thyroid hormone; Myelin basic protein; Internal capsule; Development (Martinez-Galan, J.R. (101) 249)

Lucifer yellow
Lateral superior olive; Ontogeny; Auditory system; Rat; Intracellular labeling (Kungel, M. (101) 107)

Lurcher
Cerebellum; Purkinje cell; Carbonic anhydrase (Nógrádi, A. (98) 91)

Lurcher mutant
Cerebellum; Motor coordination; Swimming; Visuomotor coordination; Equilibrium (Thullier, F. (100) 22)

Lymphocyte function-associated antigen-1 alpha
Intercellular adhesion molecule-1; β_2-integrin; Immunoglobulin superfamily; Tomato lectin histochemistry; Blood vessel (Dalmau, I. (103) 163)

M

Macaque
Dopamine; Gestation; Receptor autoradiography; Striatum; Substantia nigra (Fang, Y. (104) 163)

Mannitol
Aspartate; Glutamate; NMDA; Blood–CSF barrier; Neonate (Al-Sarraf, H. (102) 47)

Aspartate; Glutamate; Blood–brain barrier; Cerebrospinal fluid; Age (Al-Sarraf, H. (102) 127)

Marsupial
Neuroembryology; Regeneration; Sensory system; Spinal cord (Wang, X.M. (98) 151)

Clarke's nucleus; Regeneration; Sacral/coccygeal ventrolateral nucleus; Spinal border cell; Stilling's nucleus (Terman, J.R. (102) 309)

Maternal deprivation
Stress-hyporesponsive period; Brown Norway; Aging; Rat; ACTH; Corticosterone (Workel, J.O. (103) 199)

Maturation
Diaphragm; P-type calcium channel; Neuromuscular transmission; ω-Agatoxin IVa (Breugelmans, J.G. (101) 277)

Mature and immature rat
Hippocampal slice; Population spike; High energy phosphate; Glucose deprivation; Lactate; β-Hydroxy-butyrate (OHBA) (Wada, H. (101) 1)

Medial nucleus of the trapezoid body
Whole-cell patch-clamp recording; Brainstem slice; Superior olivary complex; Synapse maturation; Picrotoxin; Cyanotriphenylborate (Kungel, M. (102) 157)

Melanin
Albino; Photoreceptor; Retinal development; Tyrosinase gene; Ganglion cell layer (Jeffery, G. (99) 95)

Memory
Caffeine; Passive avoidance; Ontogeny; Gender; Learning (Fisher, S. (98) 145)

Learning; Cerebellum; Granule cell; Irradiation; Rat (Le Marec, N. (99) 20)

Brain development; Apoptosis; Choline deficient; Diet; Hippocampus; Cortex; PC12 cell; Choline; Rat; Development (Holmes-McNary, M.Q. (101) 9)

Meningeal cell
Development; Neocortex; Pioneer neuron; Cell death; Trophic dependence; Neuronal migration (Supèr, H. (98) 15)

Meningomyelocele
Spina bifida cystica; Neural tube defect; Spinal cord; Spinal dysraphism; Myeloschisis (Keller-Peck, C.R. (102) 177)

Mesencephalon
Development; Immunohistochemistry; Calbindin; Parvalbumin; Calretinin (Alfahel-Kakunda, A. (103) 9)

cMet
Hepatocyte growth factor; Brain; In situ hybridization (Achim, C.L. (102) 299)

Metabotropic
Neuroendocrine; Suprachiasmatic nucleus; Arcuate nucleus; Circadian; Glutamate receptor; Presynaptic (Ghosh, P.K. (102) 1)

Metabotropic glutamate receptor
Embryocarcinoma cell line P19; Glial cell; Neuronal differentiation in vitro; RT-PCR; In situ hybridization (Heck, S. (101) 85)

Methamphetamine
Neurotoxicity; GFAP; Dopamine; Serotonin; Caudate-putamen; Development (Cappon, G.D. (103) 155)

***N*-Methyl-D-aspartate receptor**
Cerebellum; Transplantation; Graft; In situ hybridization; γ-Aminobutyric acid A receptor (Sommer, C. (102) 225)

α-Methyl histamine
Gastrin-releasing peptide; Satiety; Feeding; Development; Imetit (Kent, P. (102) 87)

Methylmercaptoimidazole
Low iodine diet; Thyroid hormone; Myelin basic protein; Internal capsule; Development (Martinez-Galan, J.R. (101) 249)

Microdialysis
Dopamine; Development/Ontogeny; Bupropion; Dopamine reuptake; Neostriatum (Gazzara, R.A. (100) 139)

Microglia
Astrocyte; Oligodendrocyte; Gliogenesis; Lipocortin-1; S100-β (Zhang, M.-Z. (101) 27)

Ferret; Astrocyte; Oligodendrocyte; Subplate; Gliogenesis (Berman, N.E.J. (101) 149)

Microgyria
Cajal-Retzius cells; Development; Ectopia; Neocortex; Freezing lesion (Supèr, H. (98) 9)

Microtubule
Neurogenesis; Proliferation; Neurite outgrowth (Wolf, E. (102) 305)

Microtus
Oxytocin; Vasopressin; Receptor; Monogamy (Wang, Z. (104) 191)

Microvascular permeability
Angiogenesis; Developing brain; Vascular endothelial growth factor (Ment, L.R. (100) 52)

Midline radial glia
Astrocyte; Glial fibrillary acidic protein; Vimentin; Transitin (Cole, G.J. (101) 225)

MK-801
Lateralization; Chick embryo; Muscimol; AMPA; Development (Johnston, A.N.B. (103) 83)

N-methyl-D-aspartate; Monosodium glutamate; Arcuate nucleus; DNQX (Smyth, C.E. (104) 153)

Monkey
Neurotensin; Parvalbumin; Hippocampus; Presubiculum; Retrosplenial cortex; Fetus (Berger, B. (101) 207)

Monoamine
Nicotine; Prenatal period; Serotonin; Dopamine; Stress; Smoking; Pregnancy (Muneoka, K. (102) 117)

Monoclonal antibody
Immunohistochemistry; Development; Purkinje cells; Cholinergic system (Domínguez del Toro, E. (98) 125)

Parallel fiber; Mutant, *weaver*; Mutant, *staggerer*; Mutant, *Purkinje cell degeneration*; Mutant, *nervous* (Smith, A.M. (104) 79)

Monodelphis domestica
Vomeronasal organ; Olfactory; Sensory pathway; Topographic projection; Development; Opossum; G protein (Jia, C. (102) 209)

Opossum; Spinal cord development; Neurofilament; GFAP; Vimentin (Breckenridge, L.J. (103) 47)

Monogamy
Oxytocin; Vasopressin; Receptor; Microtus (Wang, Z. (104) 191)

Monosodium glutamate
N-methyl-D-aspartate; Arcuate nucleus; MK-801; DNQX (Smyth, C.E. (104) 153)

Morphogenesis
Mutant; Embryo; Mouse; Neural tube defect; Spina bifida; Cell proliferation; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Morphological parameter
Human rhombencephalon; Primary culture; Serotonin-neuron; Morphometric analysis; Cell differentiation (Levallois, C. (99) 243)

Morphometric analysis
Human rhombencephalon; Primary culture; Serotonin-neuron; Morphological parameter; Cell differentiation (Levallois, C. (99) 243)

Morphometry
Olfaction; Olfactory learning; Olfactory bulb; Rat (McCollum, J.F. (99) 118)

Development; Gustatory; Taste; Nucleus of the solitary tract; Nucleus tractus solitarius; Sensory; Brainstem (Renehan, W.E. (102) 231)

Mossy fiber
Hippocampus; Postnatal development; Lead neurotoxicity; Long-term potentiation; Paired-pulse stimulation; Facilitation; Inhibition (Gutowski, M. (98) 82)

Motoneuron
Muscle; Nerve terminal; Development; Sprouting; Synapse (Sheard, P.W. (98) 259)

Nerve:muscle interaction; Development; Paralysis (Greensmith, L. (98) 281)

Extraocular muscle; Oculomotor; Abducens; *Wnt-1*; Myogenesis; Duane syndrome; Congenital fibrosis of extraocular muscle (Porter, J.D. (100) 121)

NMDA receptor; Glutamate receptor; Neonate; Axotomy; Apoptosis (Hughes, S. (102) 13)

Serotonin; Chick; Development; In vitro (Hayashi, T. (102) 21)

Rat; Development; Oxidative enzyme (Sheard, P.W. (103) 67)

Motor ability
Neurological staggerer mutation; C57BL/6 mouse; Development; Body weight; Ultrasound (Heuzé, P. (101) 81)

Motor coordination
Cerebellum; Lurcher mutant; Swimming; Visuomotor coordination; Equilibrium (Thullier, F. (100) 22)

Mouse
Rab3A; Vestibular afferent; Vestibular sensory cell; Development; Synaptophysin; Immunocytochemistry; Rat (Dechesne, C.J. (99) 103)

IGF-I; Survival; Differentiation; Cerebellum; Granule cell (Lin, X. (99) 234)

Rat; Epidermal growth factor; Fibroblast growth factor; Stem cell; Progenitor; Proliferation; Electron microscopy (Svendsen, C.N. (99) 253)

Development; Myelin-associated glycoprotein; Oligodendrocyte; Neural co-culture; Embryonal carcinoma P19 cell; RT-PCR (Matsuda, Y. (100) 110)

Mutant; Embryo; Neural tube defect; Spina bifida; Cell proliferation; Morphogenesis; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Ifenprodil; Pentylenetetrazole-induced seizure; NMDA receptor; Development (Tsuda, M. (104) 201)

Muscarinic M_1 receptor
Cortical neuron; α_1 Adrenoceptor; BODIPY prazosin; BODIPY pirenzepine; Receptor expression; Receptor regulation; Confocal microscopy (Wang, Y. (102) 35)

Muscarinic receptor
Nicotinic receptor; α-Bungarotoxin receptor; Human brain; Hippocampus; Entorhinal cortex; Development; Aging (Court, J.A. (101) 93)

Muscimol
Lateralization; Chick embryo; AMPA; MK-801; Development (Johnston, A.N.B. (103) 83)

Hyperthermia; GABA; Thiosemicarbazide; Bicuculine; Seizure; Threshold; Duration; Adenosine (Fukuda, M. (104) 197)

Muscimol binding
$GABA_A$ receptor; Ventromedial hypothalamus; Hippocampus; Sexual differentiation; Gonadal hormone (Clark, A.S. (103) 195)

Muscle
Motoneuron; Nerve terminal; Development; Sprouting; Synapse (Sheard, P.W. (98) 259)

Mutant
Embryo; Mouse; Neural tube defect; Spina bifida; Cell proliferation; Morphogenesis; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Mutant mouse
Heterozygous staggerer; Cerebellum; Aging; Purkinje cells (Hadj-Sahraoui, N. (98) 1)

Mutant, *nervous*
Monoclonal antibody; Parallel fiber; Mutant, *weaver*; Mutant, *staggerer*; Mutant, *Purkinje cell degeneration* (Smith, A.M. (104) 79)

Mutant, *Purkinje cell degeneration*
Monoclonal antibody; Parallel fiber; Mutant, *weaver*; Mutant, *staggerer*; Mutant, *nervous* (Smith, A.M. (104) 79)

Mutant, *staggerer*
Monoclonal antibody; Parallel fiber; Mutant, *weaver*; Mutant, *Purkinje cell degeneration*; Mutant, *nervous* (Smith, A.M. (104) 79)

Mutant, *weaver*
Monoclonal antibody; Parallel fiber; Mutant, *staggerer*; Mutant, *Purkinje cell degeneration*; Mutant, *nervous* (Smith, A.M. (104) 79)

Myelin-associated glycoprotein
Mouse; Development; Oligodendrocyte; Neural co-culture; Embryonal carcinoma P19 cell; RT-PCR (Matsuda, Y. (100) 110)

Myelination
Brain; Fatty acid synthase; Acetyl-CoA carboxylase; Long-chain acyl-CoA synthase; Stearoyl-CoA desaturase (Garbay, B. (98) 197)

Myelin basic protein
Low iodine diet; Methylmercaptoimidazole; Thyroid hormone; Internal capsule; Development (Martinez-Galan, J.R. (101) 249)

Myeloschisis
Spina bifida cystica; Neural tube defect; Spinal cord; Spinal dysraphism; Meningomyelocele (Keller-Peck, C.R. (102) 177)

Myogenesis
Extraocular muscle; Oculomotor; Abducens; Motoneuron; *Wnt-1*; Duane syndrome; Congenital fibrosis of extraocular muscle (Porter, J.D. (100) 121)

N

Na^+
Astrocyte; K^+-ATPase; K^+; Voltage-sensitive Na^+ channel (Takahashi, S. (104) 111)

NAN-190
Hippocampal formation; Intracellular filling; Neurobiotin; Development; Buspirone (Yan, W. (98) 185)

Natural cell death
Apoptosis; Substantia nigra; Dopaminergic; Developmental; Parkinson's disease (Oo, T.F. (98) 191)

Negative feedback
Spreading depression; Locus coeruleus; Development; Antidromic response; α_2-Adrenoceptor (Fujii, Y. (104) 91)

Neocortex
Cajal-Retzius cells; Development; Microgyria; Ectopia; Freezing lesion (Supèr, H. (98) 9)

Development; Meningeal cell; Pioneer neuron; Cell death; Trophic dependence; Neuronal migration (Supèr, H. (98) 15)

Organotypic explant; Coculture; Rapid Golgi; Quantitative morphology; Dendrite/axon (Baker, R.E. (98) 21)

Tissue culture; Organotypic slice; Dendritic morphology; APV/DNQX; Bioelectric activity (Baker, R.E. (104) 31)

Neonatal lesion
Hippocampus; Ibotenic acid; Stereotypy; Amphetamine; Apomorphine; Dopamine (Wood, G.K. (101) 17)

Neonatal peptide treatment
ACTH-(4–9) analog ORG 2766; Corticosteroid receptor; Hippocampus (Nyakas, C. (99) 142)

Neonatal rat
NMDA receptor; D-Cycloserine; HA-966; Adult rat; Cognition (Wangen, K. (99) 126)

Fasting; Dopamine; 5-HIAA; Amino acid; Brain microdialysis (Ishida, A. (104) 131)

Neonate
Motoneurone; NMDA receptor; Glutamate receptor; Axotomy; Apoptosis (Hughes, S. (102) 13)

Aspartate; Glutamate; NMDA; Mannitol; Blood–CSF barrier (Al-Sarraf, H. (102) 47)

Sensory neuron; Sprouting; Skin; Wound; Nerve growth factor (Reynolds, M. (102) 275)

Adrenergic receptor; 5-HT_2 receptor; Isoproterenol; Inverted-U curve (Langdon, P.E. (102) 291)

Neostriatum
Dopamine; Development/Ontogeny; Microdialysis; Bupropion; Dopamine reuptake (Gazzara, R.A. (100) 139)

Perinatal asphyxia; Dopamine; Aspartate; Glutamate; Substantia nigra; Ventral tegmental area; Nucleus accumbens; Rat (Chen, Y. (104) 19)

Nerve growth factor
Brain-derived neurotrophic factor; Neural transplantation; Parkinson's disease (Zhou, J. (100) 43)

Basal forebrain; Synaptogenesis; Immunohistochemistry (Conner, J.M. (101) 67)

Long-term depression; Hippocampus; CA3; Development; Plasticity; Antibody (Ruberti, F. (101) 295)

Sensory neuron; Sprouting; Skin; Wound; Neonate (Reynolds, M. (102) 275)

Nerve:muscle interaction
Motoneurone; Development; Paralysis (Greensmith, L. (98) 281)

Nerve terminal
Motoneuron; Muscle; Development; Sprouting; Synapse (Sheard, P.W. (98) 259)

Nervous system
Actin-binding protein; Cytoskeletal protein; Development; Growth factor; Signal transduction (Zhang, F.X. (99) 216)

Nervous system development
Apo-dystrophin 1; Dp71; Alternative splicing; Duchenne muscular dystrophy; (Human) (Ceccarini, M. (103) 77)

Neural co-culture
Mouse; Development; Myelin-associated glycoprotein; Oligodendrocyte; Embryonal carcinoma P19 cell; RT-PCR (Matsuda, Y. (100) 110)

Neural crest
Neuroblastoma; Cholinergic neuronal differentiation; LA-N-5; Neuropeptide; Neurotrophic factor; Retinoic acid (Hill, D.P. (102) 53)

Neural induction
Gerbil; Outer hair cell; Development; K channel; Afferent innervation; Neurotrophic factor (He, D.Z.Z. (103) 95)

Neural transplantation
Nerve growth factor; Brain-derived neurotrophic factor; Parkinson's disease (Zhou, J. (100) 43)

Neural tube defect
Spina bifida cystica; Spinal cord; Spinal dysraphism; Myeloschisis; Meningomyelocele (Keller-Peck, C.R. (102) 177)

Mutant; Embryo; Mouse; Spina bifida; Cell proliferation; Morphogenesis; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Neurite
Dendrite; Axon; Neurite branching; Hippocampal neuron; Protein kinase; Protein phosphatase; Phosphorylation (Audesirk, G. (102) 247)

Astrocyte; Respiration; Cell death; Extracellular matrix; Synaptophysin (Gressens, P. (103) 21)

Neurite branching
Dendrite; Axon; Neurite; Hippocampal neuron; Protein kinase; Protein phosphatase; Phosphorylation (Audesirk, G. (102) 247)

Neurite growth
Growth cone; Adhesion molecule; Interference reflection microscopy; Time-lapse video microscopy (Drazba, J. (100) 183)

Neurite outgrowth
Aromatase; Androgen; Estrogen; Cell culture; Differentiation; Androgen receptor; Colocalization (Beyer, C. (98) 74)

Neurogenesis; Proliferation; Microtubule (Wolf, E. (102) 305)

Neuritogenesis
Tubulin; Glutamylation; Acetylation; Tyrosination; Cerebellar granule cell; In vitro (Przyborski, S.A. (100) 133)

Neurobiotin
Hippocampal formation; Area dentata; Granule cell; Development; Intracellular filling (Yan, W. (98) 177)

Hippocampal formation; Intracellular filling; Development; Buspirone; NAN-190 (Yan, W. (98) 185)

Development; Hippocampal formation; Dentate granule cell; Electrotonic coupling; Intracellular filling (Haring, J.H. (103) 205)

Neuroblastoma
1,25-Dihydroxyvitamin D_3; Decrease in proliferation; NGF (Veenstra, T.D. (99) 53)

Cholinergic neuronal differentiation; LA-N-5; Neuropeptide; Neurotrophic factor; Neural crest; Retinoic acid (Hill, D.P. (102) 53)

Neuroembryology
Marsupial; Regeneration; Sensory system; Spinal cord (Wang, X.M. (98) 151)

Neuroendocrine
Suprachiasmatic nucleus; Arcuate nucleus; Circadian; Glutamate receptor; Presynaptic; Metabotropic (Ghosh, P.K. (102) 1)

Neurotoxicity; Puberty; Densitometry (Natarajan, M. (102) 97)

Neurofilament
Opossum; *Monodelphis domestica*; Spinal cord development; GFAP; Vimentin (Breckenridge, L.J. (103) 47)

Neurogenesis
Proliferation; Neurite outgrowth; Microtubule (Wolf, E. (102) 305)

Neurological staggerer mutation
C57BL/6 mouse; Development; Body weight; Motor ability; Ultrasound (Heuzé, P. (101) 81)

Neuromuscular transmission
Diaphragm; P-type calcium channel; Maturation; ω-Agatoxin IVa (Breugelmans, J.G. (101) 277)

Neuron
Proton; Calcium channel; Sodium channel; Rat embryo; Spinal cord (Li, Y.-X. (102) 261)

Neuronal aggregation
Ependymal cell; Subcommissural organ; Reissner's fiber; Primary chick spinal cord cell culture; Neuronal survival; Development (Monnerie, H. (102) 167)

Neuronal cell-line
Embryonal carcinoma; Neuronal polarity; Neurotransmitter release; Synaptic protein (Parnas, D. (101) 115)

Neuronal death
Colchicine; Chick embryo; Cell death; Retrograde influence; Development (Primi, M.-P. (99) 259)

Neuronal differentiation in vitro
Glycine receptor subunit; Gephyrin; Alternative mRNA splicing; Embryonal carcinoma cell line P19; Glial cell; RT-PCR; In situ hybridization (Heck, S. (101) 85)

Neuronal migration
Development; Neocortex; Meningeal cell; Pioneer neuron; Cell death; Trophic dependence (Supèr, H. (98) 15)

Reptile; Turtle; Bromodeoxyuridine; [^{3}H]Thymidine; Electron microscopy (Pérez-Cañellas, M.M. (101) 125)

Neuronal plasticity
In situ hybridization; Immunohistochemistry; Amacrine cell; Inner plexiform layer; Inner nuclear layer (Kapfhammer, J.P. (101) 257)

Neuronal polarity
Embryonal carcinoma; Neuronal cell-line; Neurotransmitter release; Synaptic protein (Parnas, D. (101) 115)

Neuronal survival
GABA; Striatal neuron; $GABA_A$ receptor; L-type voltage-dependent Ca^{2+} channel; Development (Ikeda, Y. (98) 253)

Ependymal cell; Subcommissural organ; Reissner's fiber; Primary chick spinal cord cell culture; Neuronal aggregation; Development (Monnerie, H. (102) 167)

Neuron death
Apoptosis; Oxidative stress; Free radical; Glutathione; Protein synthesis; Chick embryo; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Neuropathology
Epilepsy; Development; Seizure; Rabbit; Hippocampus; Pilocarpine (Thompson, K. (100) 1)

Neuropeptide
Chromogranin; Proteolysis; Prohormone convertase; Processing; Prenatal; Postnatal; Immunoreactivity (Leitner, B. (100) 161)

Neuroblastoma; Cholinergic neuronal differentiation; LA-N-5; Neurotrophic factor; Neural crest; Retinoic acid (Hill, D.P. (102) 53)

Neuropeptide Y
Transplantation; Graft; Nitric oxide; Nitric oxide synthase; Choline acetyltransferase (ChAT); Nucleus basalis magnocellularis (NBM) (Shoham, S. (99) 155)

Neuroplasticity
Fetal brain lesion; Reinnervation; Axonal sprouting (Carlson-Kuhta, P. (98) 234)

Neuroprotection
Excitotoxicity; Ibotenic acid; Kynurenic acid; Kynurenine; Ontogeny; Quinolinic acid (Ceresoli, G. (100) 73)

Neurotensin
Retina; Amacrine; Enkephalin; Somatostatin; Development (Yang, D.S. (101) 57)

Parvalbumin; Hippocampus; Presubiculum; Retrosplenial cortex; Monkey; Fetus (Berger, B. (101) 207)

Neuroteratogen
Alcohol; Brain development; Catecholamine; Cocaethylene; Cocaine; Indoleamine; Rat (Chen, W.-J.A. (100) 220)

Neurotoxicity
Puberty; Neuroendocrine; Densitometry (Natarajan, M. (102) 97)

Methamphetamine; GFAP; Dopamine; Serotonin; Caudate-putamen; Development (Cappon, G.D. (103) 155)

Neurotransmitter
Cholinesterase; Choline acetyltransferase; Inner nuclear layer; Retinal cell type (Reiss, Y. (100) 62)

Neurotransmitter release
Embryonal carcinoma; Neuronal cell-line; Neuronal polarity; Synaptic protein (Parnas, D. (101) 115)

Neurotrophic agent
Cerebellar granule cell; In vitro survival; Excitotoxicity; Apoptosis; NMDA receptor (Ciani, E. (99) 112)

Neurotrophic factor
Neuroblastoma; Cholinergic neuronal differentiation; LA-N-5; Neuropeptide; Neural crest; Retinoic acid (Hill, D.P. (102) 53)

Gerbil; Outer hair cell; Development; K channel; Afferent innervation; Neural induction (He, D.Z.Z. (103) 95)

Neurotrophic factor neurotrophin
Apoptosis; Astroglia; Vasoactive intestinal peptide; Cerebral cortex (Gozes, I. (99) 167)

Neurulation
Mutant; Embryo; Mouse; Neural tube defect; Spina bifida; Cell proliferation; Morphogenesis; Embryo culture (Gerrelli, D. (102) 217)

Newborn
Tyrosine hydroxylase; Serotonin; Raphe nucleus; Coexistence; Laboratory shrew (Karasawa, N. (99) 121)

Choroid plexus; Prostaglandin E_2; Prostaglandin $F_{2\alpha}$; Prostaglandin transport and catabolism; Fetus; Adult; Pregnancy (Krunic, N. (100) 82)

Newt
Retina; Regeneration; Synaptogenesis; γ-Aminobutyric acid; Immunohistochemistry; Whole-cell patch-clamp; High-pressure liquid chromatography (Chiba, C. (98) 204)

NGF
1,25-Dihydroxyvitamin D_3; Neuroblastoma; Decrease in proliferation (Veenstra, T.D. (99) 53)

Transcription factor; Brn-3a; Chicken; Quantitative PCR; Spinal ganglion; Trigeminal ganglion; NT-3 (Lindeberg, J. (100) 169)

proNGF
Peptide; Cholinergic enzyme; Rat brain; Development (Clos, J. (99) 267)

Nicotine
Monoamine; Prenatal period; Serotonin; Dopamine; Stress; Smoking; Pregnancy (Muneoka, K. (102) 117)

Brain growth; Alcohol (ethanol); Glucose; Glucose transport; Glut 1; Glut 3 (Eckstein, L.W. (103) 59)

Nicotinic receptor
α-Bungarotoxin receptor; Muscarinic receptor; Human brain; Hippocampus; Entorhinal cortex; Development; Aging (Court, J.A. (101) 93)

Nitrendipine
Retina; Development; Calcium; L-type VSCC (Capela, A. (104) 63)

Nitric oxide
Transplantation; Graft; Nitric oxide synthase; Neuropeptide Y; Choline acetyltransferase (ChAT); Nucleus basalis magnocellularis (NBM) (Shoham, S. (99) 155)

Sex differentiation; Steroid receptor; Premammillary nucleus; Development; Double staining (Yokosuka, M. (99) 226)

Development; Ontogeny; Plasticity (García-Ojeda, E. (101) 177)

Nitric oxide synthase
Transplantation; Graft; Nitric oxide; Neuropeptide Y; Choline acetyltransferase (ChAT); Nucleus basalis magnocellularis (NBM) (Shoham, S. (99) 155)

NMDA
Hypoxia; Glutamate; Development; Dextromethorphan; Seizure; Passive avoidance; Brain (Laroia, N. (100) 29)

Aspartate; Glutamate; Mannitol; Blood–CSF barrier; Neonate (Al-Sarraf, H. (102) 47)

NMDA receptor
Synaptogenesis; Area 17; Receptor clustering; Subplate neurons; Ocular dominance plasticity (Aoki, C. (98) 41)

Cerebellar granule cell; In vitro survival; Neurotrophic agent; Excitotoxicity; Apoptosis (Ciani, E. (99) 112)

Neonatal rat; D-Cycloserine; HA-966; Adult rat; Cognition (Wangen, K. (99) 126)

Synaptogenesis; Silent synapse; Glutamatergic synapse; Non-NMDA receptor; Culture; Development (Kiyosue, K. (99) 201)

Lateral geniculate nucleus; Ifenprodil; Ferret; Retinal activity; Development; Tetrodotoxin; Slice preparation (Ramoa, A.S. (101) 165)

Motoneurone; Glutamate receptor; Neonate; Axotomy; Apoptosis (Hughes, S. (102) 13)

Cell death; Dentate gyrus; Adrenal steroid; Corticosterone; Development (Gould, E. (103) 91)

Ifenprodil; Pentylenetetrazole-induced seizure; Development; Mouse (Tsuda, M. (104) 201)

***N*-methyl-D-aspartate**
Monosodium glutamate; Arcuate nucleus; MK-801; DNQX (Smyth, C.E. (104) 153)

Non-amyloid component precursor
Synaptogenesis; Rat hippocampal culture; Synaptic maturation; Presynaptic terminal; Synelfin; Synuclein (Withers, G.S. (99) 87)

Non-NMDA receptor
Synaptogenesis; Silent synapse; Glutamatergic synapse; NMDA receptor; Culture; Development (Kiyosue, K. (99) 201)

Norepinephrine
Hypothalamus; Release; Uptake; Autoreceptor; Adolescence (Choi, S.J. (98) 134)

Northern analysis
Calcium-sensing receptor; Rat hippocampus; Western analysis; In situ hybridization; Immunohistochemistry (Chattopadhyay, N. (100) 13)

NT-3
Transcription factor; Brn-3a; Chicken; Quantitative PCR; Spinal ganglion; Trigeminal ganglion; NGF (Lindeberg, J. (100) 169)

Nucleus accumbens
Delta opioid; Development; Dopamine receptor; Postnatal exposure; Rat; SNC 80; Striatum (Shieh, G.-J. (103) 209)

Perinatal asphyxia; Dopamine; Aspartate; Glutamate; Neostriatum; Substantia nigra; Ventral tegmental area; Rat (Chen, Y. (104) 19)

Nucleus basalis magnocellularis (NBM)
Transplantation; Graft; Nitric oxide; Nitric oxide synthase; Neuropeptide Y; Choline acetyltransferase (ChAT) (Shoham, S. (99) 155)

Nucleus of the solitary tract
Development; Gustatory; Taste; Nucleus tractus solitarius; Sensory; Brainstem; Morphometry (Renehan, W.E. (102) 231)

Nucleus tractus solitarius
Development; Gustatory; Taste; Nucleus of the solitary tract; Sensory; Brainstem; Morphometry (Renehan, W.E. (102) 231)

O

Ocular dominance plasticity
NMDA receptor; Synaptogenesis; Area 17; Receptor clustering; Subplate neurons (Aoki, C. (98) 41)

Oculomotor
Extraocular muscle; Abducens; Motoneuron; *Wnt-1*; Myogenesis; Duane syndrome; Congenital fibrosis of extraocular muscle (Porter, J.D. (100) 121)

Strabismus; Visual system development; Deprivation (Garraghty, P.E. (100) 127)

Olfaction
Olfactory learning; Olfactory bulb; Morphometry; Rat (McCollum, J.F. (99) 118)

Adhesion; In situ hybridization; Embryonic development; Regeneration; Plasticity; Polysialic acid (Phillips, G.R. (102) 143)

Olfactory
Laminin; Vomeronasal; Axon guidance; Adhesion (Raabe, E.H. (101) 187)

Vomeronasal organ; Sensory pathway; Topographic projection; Development; Opossum; *Monodelphis domestica*; G protein (Jia, C. (102) 209)

Olfactory bulb
Olfaction; Olfactory learning; Morphometry; Rat (McCollum, J.F. (99) 118)

Olfactory learning
Olfaction; Olfactory bulb; Morphometry; Rat (McCollum, J.F. (99) 118)

Olfactory receptor cells
Anamniote; Calcium; Development; Fish; Immunocytochemistry (Porteros, A. (100) 101)

Oligodendrocyte
Mouse; Development; Myelin-associated glycoprotein; Neural co-culture; Embryonal carcinoma P19 cell; RT-PCR (Matsuda, Y. (100) 110)

Microglia; Astrocyte; Gliogenesis; Lipocortin-1; S100-β (Zhang, M.-Z. (101) 27)

Ferret; Astrocyte; Microglia; Subplate; Gliogenesis (Berman, N.E.J. (101) 149)

Olivocerebellar projection
Climbing fibre; Development; Purkinje cell; IGF-I; Growth factor (Sherrard, R.M. (98) 102)

Ontogeny
Amphetamine; Basal ganglia; Benzodiazepine, prenatal; κ-Opioid receptor; Opioid; Preprodynorphin mRNA (Inderbitzin, S. (98) 114)

Caffeine; Passive avoidance; Gender; Learning; Memory (Fisher, S. (98) 145)

γ-Aminobutyric acid; GABA transporter; Interneuron; Astrocyte; Cerebral cortex; Hippocampus (Yan, X.-X. (99) 1)

Excitotoxicity; Ibotenic acid; Kynurenic acid; Kynurenine; Neuroprotection; Quinolinic acid (Ceresoli, G. (100) 73)

Hippocampal slice; Glutamate; Guinea pig; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (101) 49)

Lateral superior olive; Auditory system; Rat; Intracellular labeling; Lucifer yellow (Kungel, M. (101) 107)

Development; Nitric oxide; Plasticity (García-Ojeda, E. (101) 177)

Carbon monoxide; Hippocampus; Guinea pig; Ethanol (Cook, M.N. (101) 283)

Dopamine D_1 receptor; c-*fos*; Immediate-early gene; Brain mapping; ^{125}I-SCH 23982; In situ hybridization; Fetus (Shearman, L.P. (102) 105)

Opioid
Amphetamine; Basal ganglia; Benzodiazepine, prenatal; κ-Opioid receptor; Ontogeny; Preprodynorphin mRNA (Inderbitzin, S. (98) 114)

κ-Opioid receptor
Amphetamine; Basal ganglia; Benzodiazepine, prenatal; Ontogeny; Opioid; Preprodynorphin mRNA (Inderbitzin, S. (98) 114)

Opossum
Vomeronasal organ; Olfactory; Sensory pathway; Topographic projection; Development; *Monodelphis domestica*; G protein (Jia, C. (102) 209)

Monodelphis domestica; Spinal cord development; Neurofilament; GFAP; Vimentin (Breckenridge, L.J. (103) 47)

Orbit
Sympathetic nervous system; Denervation; Iris; Reinnervation; Superior cervical ganglion; Anterior chamber; Transplant (Hiebert, J.M. (100) 35)

Organotypic culture
Hippocampus; Synaptogenesis; Spontaneous action potential; Epileptogenesis (Nakagami, Y. (103) 99)

Organotypic explant
Neocortex; Coculture; Rapid Golgi; Quantitative morphology; Dendrite/axon (Baker, R.E. (98) 21)

Organotypic slice
Tissue culture; Neocortex; Dendritic morphology; APV/DNQX; Bioelectric activity (Baker, R.E. (104) 31)

Osteogenic protein-1
Dendrite; Leukemia inhibitory factor; Ciliary neurotrophic factor; Sympathetic neuron; Bone morphogenetic protein (Guo, X. (104) 101)

Outer hair cell
Gerbil; Development; K channel; Afferent innervation; Neural induction; Neurotrophic factor (He, D.Z.Z. (103) 95)

Oxidative enzyme
Rat; Motoneuron; Development (Sheard, P.W. (103) 67)

Oxidative stress
Neuron death; Apoptosis; Free radical; Glutathione; Protein synthesis; Chick embryo; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Oxytocin
Vasopressin; Receptor; Monogamy; Microtus (Wang, Z. (104) 191)

P

Paired-pulse stimulation
Hippocampus; Postnatal development; Mossy fiber; Lead neurotoxicity; Long-term potentiation; Facilitation; Inhibition (Gutowski, M. (98) 82)

Pallidum
Striatum; Graft; GABA receptor; Development; Transplantation (Liste, I. (103) 185)

Parallel fiber
Monoclonal antibody; Mutant, *weaver*; Mutant, *staggerer*; Mutant, *Purkinje cell degeneration*; Mutant, *nervous* (Smith, A.M. (104) 79)

Paralysis
Motoneurone; Nerve:muscle interaction; Development (Greensmith, L. (98) 281)

Parkinson's disease
Natural cell death; Apoptosis; Substantia nigra; Dopaminergic; Developmental (Oo, T.F. (98) 191)

Nerve growth factor; Brain-derived neurotrophic factor; Neural transplantation (Zhou, J. (100) 43)

Paroxetine
Brain development; Cocaine; Dexamethasone; Glucocorticoid; Serotonin; Transporter (McGrath, K.E. (104) 209)

Parvalbumin
Accessory optic system; Retinal afferent; Retinal termination zone; Differential cell growth; Calbindin; Inhibitory neuron (Wahle, P. (99) 72)

Neurotensin; Hippocampus; Presubiculum; Retrosplenial cortex; Monkey; Fetus (Berger, B. (101) 207)

Development; Mesencephalon; Immunohistochemistry; Calbindin; Calretinin (Alfahel-Kakunda, A. (103) 9)

Calcium binding protein; Human cerebellum; Development; Calretinin; Calbindin D28K (Yew, D.T. (103) 37)

Passive avoidance
Caffeine; Ontogeny; Gender; Learning; Memory (Fisher, S. (98) 145)

Hypoxia; Glutamate; NMDA; Development; Dextromethorphan; Seizure; Brain (Laroia, N. (100) 29)

Learning; Development; Dark-incubated; Corticosterone; Chick (Sui, N. (101) 269)

Patch clamp
Development; Rat; Hippocampus; CA1 pyramidal neuron; Calcium current; Amphotericin B (Kortekaas, P. (101) 139)

Pathfinding
Floor plate; Extracellular matrix; Integrin; TGF β; Axon; Spinal cord; Danforth's short tail (Ohyama, K. (103) 143)

Pattern formation
Retinogeniculate; Development; Tetrodotoxin; Retinal ganglion cell; Spontaneous activity (Cramer, K.S. (98) 287)

Explant coculture; Subnucleus interpolaris; Voltage-dependent conductance; Rat trigeminal pathway (Erzurumlu, R.S. (101) 37)

PC12 cell
Brain development; Apoptosis; Choline deficient; Diet; Hippocampus; Cortex; Choline; Rat; Development; Memory (Holmes-McNary, M.Q. (101) 9)

***pcd* mouse**
Insulin-like growth factor I; Apoptosis; Purkinje cell (Zhang, W. (98) 164)

PDGF-αR
Ciliary neurotrophic factor; Astrogliosis; Activated microglia; GFAP; ED1; S100α; CNTF-αR (Kahn, M.A. (98) 221)

PECAM
ICAM-1; ICAM-2; VCAM-1; Human fetal microglia; Colonisation; Cerebral vessel (Rezaie, P. (104) 175)

Pecten oculi
Blood–brain barrier; Blood–retina barrier; Glucose transporter; HT7; Tight junction; Chicken (Liebner, S. (100) 205)

Pentylenetetrazole-induced seizure
Ifenprodil; NMDA receptor; Development; Mouse (Tsuda, M. (104) 201)

Peptide
proNGF; Cholinergic enzyme; Rat brain; Development (Clos, J. (99) 267)

Ganglion cell; Superior colliculus; Retinal development (Fontanesi, G. (103) 119)

Perinatal asphyxia
Dopamine; Aspartate; Glutamate; Neostriatum; Substantia nigra; Ventral tegmental area; Nucleus accumbens; Rat (Chen, Y. (104) 19)

Phosphorylation
Dendrite; Axon; Neurite; Neurite branching; Hippocampal neuron; Protein kinase; Protein phosphatase (Audesirk, G. (102) 247)

Photoreceptor
Albino; Retinal development; Tyrosinase gene; Ganglion cell layer; Melanin (Jeffery, G. (99) 95)

Picrotoxin
Whole-cell patch-clamp recording; Brainstem slice; Superior olivary complex; Medial nucleus of the trapezoid body; Synapse maturation; Cyanotriphenylborate (Kungel, M. (102) 157)

Pilocarpine
Status epilepticus; γ-Aminobutyric acid; Hippocampus; Cortex (Sankar, R. (98) 60)

Epilepsy; Development; Seizure; Neuropathology; Rabbit; Hippocampus (Thompson, K. (100) 1)

Pineal
Retina; Rhodopsin; Iodopsin; Differentiation; Cell culture; quail (Araki, M. (104) 71)

Pioneer neuron
Development; Neocortex; Meningeal cell; Cell death; Trophic dependence; Neuronal migration (Supèr, H. (98) 15)

Plasticity
Development; Nitric oxide; Ontogeny (García-Ojeda, E. (101) 177)

Long-term depression; Hippocampus; CA3; Development; Nerve growth factor; Antibody (Ruberti, F. (101) 295)

Visual cortex; Serotonin receptor; Long-term potentiation; Long-term depression; Development (Kojic, L. (101) 299)

Adhesion; In situ hybridization; Embryonic development; Regeneration; Polysialic acid; Olfaction (Phillips, G.R. (102) 143)

Brain lesion; Calcium binding protein; Corticospinal tract; Development (Clowry, G.J. (102) 197)

GABA; Protein expression; Critical period (Guo, Y. (103) 127)

Polysialic acid
Adhesion; In situ hybridization; Embryonic development; Regeneration; Plasticity; Olfaction (Phillips, G.R. (102) 143)

POMC mRNA
Sex difference; Development; SHRP (Halasz, I. (100) 198)

Population spike
Mature and immature rat; Hippocampal slice; High energy phosphate; Glucose deprivation; Lactate; β-Hydroxy-butyrate (OHBA) (Wada, H. (101) 1)

Postnatal
Chromogranin; Proteolysis; Neuropeptide; Prohormone convertase; Processing; Prenatal; Immunoreactivity (Leitner, B. (100) 161)

Postnatal development
Hippocampus; Mossy fiber; Lead neurotoxicity; Long-term potentiation; Paired-pulse stimulation; Facilitation; Inhibition (Gutowski, M. (98) 82)

Postnatal exposure
Delta opioid; Development; Dopamine receptor; Nucleus accumbens; Rat; SNC 80; Striatum (Shieh, G.-J. (103) 209)

Pregnancy
Choroid plexus; Prostaglandin E_2; Prostaglandin $F_{2\alpha}$; Prostaglandin transport and catabolism; Fetus; Newborn; Adult (Krunic, N. (100) 82)

Nicotine; Monoamine; Prenatal period; Serotonin; Dopamine; Stress; Smoking (Muneoka, K. (102) 117)

Premammillary nucleus
Sex differentiation; Steroid receptor; Nitric oxide; Development; Double staining (Yokosuka, M. (99) 226)

Prenatal
Chromogranin; Proteolysis; Neuropeptide; Prohormone convertase; Processing; Postnatal; Immunoreactivity (Leitner, B. (100) 161)

Cocaine; Epilepsy; Electrophysiology; Hippocampus; Rat (Baraban, S.C. (102) 189)

Prenatal period
Nicotine; Monoamine; Serotonin; Dopamine; Stress; Smoking; Pregnancy (Muneoka, K. (102) 117)

Preprodynorphin mRNA
Amphetamine; Basal ganglia; Benzodiazepine, prenatal; κ-Opioid receptor; Ontogeny; Opioid (Inderbitzin, S. (98) 114)

Preproenkephalin
Kainic acid; Status epilepticus; Hippocampus; Calcium uptake; Development; Rat (Friedman, L.K. (101) 287)

Presubiculum
Neurotensin; Parvalbumin; Hippocampus; Retrosplenial cortex; Monkey; Fetus (Berger, B. (101) 207)

Presynaptic
Neuroendocrine; Suprachiasmatic nucleus; Arcuate nucleus; Circadian; Glutamate receptor; Metabotropic (Ghosh, P.K. (102) 1)

Presynaptic terminal
Synaptogenesis; Rat hippocampal culture; Synaptic maturation; Synelfin; Synuclein; Non-amyloid component precursor (Withers, G.S. (99) 87)

Primary chick spinal cord cell culture
Ependymal cell; Subcommissural organ; Reissner's fiber; Neuronal survival; Neuronal aggregation; Development (Monnerie, H. (102) 167)

Primary culture
Human rhombencephalon; Serotonin-neuron; Morphological parameter; Morphometric analysis; Cell differentiation (Levallois, C. (99) 243)

Processing
Chromogranin; Proteolysis; Neuropeptide; Prohormone convertase; Prenatal; Postnatal; Immunoreactivity (Leitner, B. (100) 161)

Progenitor
Stem cell; Striatum; Development (Rosser, A.E. (98) 291)

Rat; Mouse; Epidermal growth factor; Fibroblast growth factor; Stem cell; Proliferation; Electron microscopy (Svendsen, C.N. (99) 253)

Prohormone convertase
Chromogranin; Proteolysis; Neuropeptide; Processing; Prenatal; Postnatal; Immunoreactivity (Leitner, B. (100) 161)

Proliferation
Rat; Mouse; Epidermal growth factor; Fibroblast growth factor; Stem cell; Progenitor; Electron microscopy (Svendsen, C.N. (99) 253)

Neurogenesis; Neurite outgrowth; Microtubule (Wolf, E. (102) 305)

Proline
Hippocampus; Glutamate; Uptake; Development (Cohen, S.M. (100) 230)

Propylthiouracil, effects on TGF-β receptor expression
Thyroid hormone, role in development of TGF-β receptor mRNA; Transforming growth factor-β receptors, in developing brain (Slotkin, T.A. (99) 61)

Prostaglandin E_2
Choroid plexus; Prostaglandin $F_{2\alpha}$; Prostaglandin transport and catabolism; Fetus; Newborn; Adult; Pregnancy (Krunic, N. (100) 82)

Prostaglandin $F_{2\alpha}$
Choroid plexus; Prostaglandin E_2; Prostaglandin transport and catabolism; Fetus; Newborn; Adult; Pregnancy (Krunic, N. (100) 82)

Prostaglandin transport and catabolism
Choroid plexus; Prostaglandin E_2; Prostaglandin $F_{2\alpha}$; Fetus; Newborn; Adult; Pregnancy (Krunic, N. (100) 82)

Protease nexin I
Thrombin; Acetyl choline; Hirudin; Cultured muscle; Tetrodotoxin; Gene expression (Glazner, G.W. (99) 148)

Protein disulfide isomerase
Chick retinal development; Cell adhesion molecule; R-cognin mRNA (Phillips, J.L. (104) 143)

Protein expression
GABA; Plasticity; Critical period (Guo, Y. (103) 127)

Protein kinase
Dendrite; Axon; Neurite; Neurite branching; Hippocampal neuron; Protein phosphatase; Phosphorylation (Audesirk, G. (102) 247)

Protein phosphatase
Dendrite; Axon; Neurite; Neurite branching; Hippocampal neuron; Protein kinase; Phosphorylation (Audesirk, G. (102) 247)

Protein phosphorylation
Glial fibrillary acidic protein; Tryptic phosphopeptide map; Ca^{2+}/calmodulin-dependent protein kinase; Astrocyte development (Leal, R.B. (104) 1)

Glial fibrillary acidic protein; Calcineurin; FK506; Astrocyte development; Calcium ion (Vinadé, L. (104) 11)

Protein synthesis
Hippocampal slice; Glutamate; Guinea pig; Ontogeny; Ischemia; Energy metabolism (Berger, R. (101) 49)

Neuron death; Apoptosis; Oxidative stress; Free radical; Glutathione; Chick embryo; Retina; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Proteolysis
Chromogranin; Neuropeptide; Prohormone convertase; Processing; Prenatal; Postnatal; Immunoreactivity (Leitner, B. (100) 161)

Proton
Calcium channel; Sodium channel; Rat embryo; Spinal cord; Neuron (Li, Y.-X. (102) 261)

P-type calcium channel
Diaphragm; Neuromuscular transmission; Maturation; ω-Agatoxin IVa (Breugelmans, J.G. (101) 277)

Puberty
Neurotoxicity; Neuroendocrine; Densitometry (Natarajan, M. (102) 97)

Purkinje cell
Cerebellum; *Lurcher*; Carbonic anhydrase (Nógrádi, A. (98) 91)

Climbing fibre; Development; IGF-I; Olivocerebellar projection; Growth factor (Sherrard, R.M. (98) 102)

Insulin-like growth factor I; Apoptosis; *pcd* mouse (Zhang, W. (98) 164)

Purkinje cells
Heterozygous staggerer; Mutant mouse; Cerebellum; Aging (Hadj-Sahraoui, N. (98) 1)

Immunohistochemistry; Development; Monoclonal antibody; Cholinergic system (Domínguez del Toro, E. (98) 125)

Q

Quail
Pineal; Retina; Rhodopsin; Iodopsin; Differentiation; Cell culture (Araki, M. (104) 71)

Quantitative morphology
Neocortex; Organotypic explant; Coculture; Rapid Golgi; Dendrite/axon (Baker, R.E. (98) 21)

Quantitative PCR
AMPA receptor; Development; Kainate receptor; Regulation; RNA editing; Tissue culture (Paschen, W. (98) 271)

Transcription factor; Brn-3a; Chicken; Spinal ganglion; Trigeminal ganglion; NGF; NT-3 (Lindeberg, J. (100) 169)

Quinolinic acid
Excitotoxicity; Ibotenic acid; Kynurenic acid; Kynurenine; Neuroprotection; Ontogeny (Ceresoli, G. (100) 73)

R

Rab3A
Vestibular afferent; Vestibular sensory cell; Development; Synaptophysin; Immunocytochemistry; Rat; Mouse (Dechesne, C.J. (99) 103)

Rabbit
Epilepsy; Development; Seizure; Neuropathology; Hippocampus; Pilocarpine (Thompson, K. (100) 1)

Radial glia
FAL; Cell–cell interaction; SSEA-1; Subplate (Ashwell, K.W.S. (100) 143)

Raphe nucleus
Tyrosine hydroxylase; Serotonin; Coexistence; Newborn; Laboratory shrew (Karasawa, N. (99) 121)

Rapid Golgi
Neocortex; Organotypic explant; Coculture; Quantitative morphology; Dendrite/axon (Baker, R.E. (98) 21)

Rat
Development; Differential display; In situ hybridization; Forebrain; Telencephalon; Hippocampus (Hatanaka, Y. (98) 65)

Serotonin; 5-HT_3 receptor; Spinal cord; Development; Antinociception (Giordano, J. (98) 142)

Febrile seizure; Animal model; Epilepsy; Hyperthermia; Infant; Development; EEG (Baram, T.Z. (98) 265)

Learning; Memory; Cerebellum; Granule cell; Irradiation (Le Marec, N. (99) 20)

Rab3A; Vestibular afferent; Vestibular sensory cell; Development; Synaptophysin; Immunocytochemistry; Mouse (Dechesne, C.J. (99) 103)

Olfaction; Olfactory learning; Olfactory bulb; Morphometry (McCollum, J.F. (99) 118)

Mouse; Epidermal growth factor; Fibroblast growth factor; Stem cell; Progenitor; Proliferation; Electron microscopy (Svendsen, C.N. (99) 253)

Hypothalamus; Calbindin-D_{28k}; Development; Glucocorticoid; Sexual differentiation; Western analysis; Fetal (Lephart, E.D. (100) 117)

Alcohol; Brain development; Catecholamine; Cocaethylene; Cocaine; Indoleamine; Neuroteratogen (Chen, W.-J.A. (100) 220)

Brain development; Apoptosis; Choline deficient; Diet; Hippocampus; Cortex; PC12 cell; Choline; Development; Memory (Holmes-McNary, M.Q. (101) 9)

Lateral superior olive; Ontogeny; Auditory system; Intracellular labeling; Lucifer yellow (Kungel, M. (101) 107)

Development; Hippocampus; CA1 pyramidal neuron; Calcium current; Patch clamp; Amphotericin B (Kortekaas, P. (101) 139)

Preproenkephalin; Kainic acid; Status epilepticus; Hippocampus; Calcium uptake; Development (Friedman, L.K. (101) 287)

Cocaine; Epilepsy; Electrophysiology; Hippocampus; Prenatal (Baraban, S.C. (102) 189)

Retina; Development; Synaptophysin; Synapsin I; Syntaxin; Immunocytochemistry (Dhingra, N.K. (102) 267)

Motoneuron; Development; Oxidative enzyme (Sheard, P.W. (103) 67)

Stress-hyporesponsive period; Brown Norway; Aging; Maternal deprivation; ACTH; Corticosterone (Workel, J.O. (103) 199)

Delta opioid; Development; Dopamine receptor; Nucleus accumbens; Postnatal exposure; SNC 80; Striatum (Shieh, G.-J. (103) 209)

Perinatal asphyxia; Dopamine; Aspartate; Glutamate; Neostriatum; Substantia nigra; Ventral tegmental area; Nucleus accumbens (Chen, Y. (104) 19)

Rat brain
Sexual dimorphism; Androgen manipulation; Catecholamine; Differentiation (Siddiqui, A. (98) 247)

Peptide; proNGF; Cholinergic enzyme; Development (Clos, J. (99) 267)

Rat embryo
Proton; Calcium channel; Sodium channel; Spinal cord; Neuron (Li, Y.-X. (102) 261)

Rat forebrain
Voltage-dependent sodium channel; Sialidation and channel function during development (Castillo, C. (104) 119)

Rat hippocampal culture
Synaptogenesis; Synaptic maturation; Presynaptic terminal; Synelfin; Synuclein; Non-amyloid component precursor (Withers, G.S. (99) 87)

Rat hippocampus
Calcium-sensing receptor; Western analysis; Northern analysis; In situ hybridization; Immunohistochemistry (Chattopadhyay, N. (100) 13)

Rat trigeminal pathway
Explant coculture; Subnucleus interpolaris; Voltage-dependent conductance; Pattern formation (Erzurumlu, R.S. (101) 37)

Receptor
Oxytocin; Vasopressin; Monogamy; Microtus (Wang, Z. (104) 191)

Receptor autoradiography
Dopamine; Gestation; Macaque; Striatum; Substantia nigra (Fang, Y. (104) 163)

Receptor clustering
NMDA receptor; Synaptogenesis; Area 17; Subplate neurons; Ocular dominance plasticity (Aoki, C. (98) 41)

Receptor expression
Cortical neuron; α_1 Adrenoceptor; Muscarinic M_1 receptor; BODIPY prazosin; BODIPY pirenzepine; Receptor regulation; Confocal microscopy (Wang, Y. (102) 35)

Receptor regulation
Cortical neuron; α_1 Adrenoceptor; Muscarinic M_1 receptor; BODIPY prazosin; BODIPY pirenzepine; Receptor expression; Confocal microscopy (Wang, Y. (102) 35)

Regeneration
Marsupial; Neuroembryology; Sensory system; Spinal cord (Wang, X.M. (98) 151)

Newt; Retina; Synaptogenesis; γ-Aminobutyric acid; Immunohistochemistry; Whole-cell patch-clamp; High-pressure liquid chromatography (Chiba, C. (98) 204)

Adhesion; In situ hybridization; Embryonic development; Plasticity; Polysialic acid; Olfaction (Phillips, G.R. (102) 143)

Clarke's nucleus; Marsupial; Sacral/coccygeal ventrolateral nucleus; Spinal border cell; Stilling's nucleus (Terman, J.R. (102) 309)

Regulation
AMPA receptor; Development; Kainate receptor; Quantitative PCR; RNA editing; Tissue culture (Paschen, W. (98) 271)

Reinnervation
Fetal brain lesion; Neuroplasticity; Axonal sprouting (Carlson-Kuhta, P. (98) 234)

Sympathetic nervous system; Denervation; Iris; Superior cervical ganglion; Orbit; Anterior chamber; Transplant (Hiebert, J.M. (100) 35)

Reissner's fiber
Ependymal cell; Subcommissural organ; Primary chick spinal cord cell culture; Neuronal survival; Neuronal aggregation; Development (Monnerie, H. (102) 167)

Release
Norepinephrine; Hypothalamus; Uptake; Autoreceptor; Adolescence (Choi, S.J. (98) 134)

Reptile
Turtle; Neuronal migration; Bromodeoxyuridine; [^{3}H]Thymidine; Electron microscopy (Pérez-Cañellas, M.M. (101) 125)

Respiration
Astrocyte; Cell death; Extracellular matrix; Neurite; Synaptophysin (Gressens, P. (103) 21)

Retina
Newt; Regeneration; Synaptogenesis; γ-Aminobutyric acid; Immunohistochemistry; Whole-cell patch-clamp; High-pressure liquid chromatography (Chiba, C. (98) 204)

Amacrine; Enkephalin; Somatostatin; Neurotensin; Development (Yang, D.S. (101) 57)

Development; Synaptophysin; Synapsin I; Syntaxin; Immunocytochemistry; Rat (Dhingra, N.K. (102) 267)

Neuron death; Apoptosis; Oxidative stress; Free radical; Glutathione; Protein synthesis; Chick embryo; Ganglion cell; Axotomy (Castagné, V. (102) 285)

Development; Calcium; Nitrendipine; L-type VSCC (Capela, A. (104) 63)

Pineal; Rhodopsin; Iodopsin; Differentiation; Cell culture; quail (Araki, M. (104) 71)

Retinal activity
Lateral geniculate nucleus; Ifenprodil; Ferret; Development; NMDA receptor; Tetrodotoxin; Slice preparation (Ramoa, A.S. (101) 165)

Retinal afferent
Accessory optic system; Retinal termination zone; Differential cell growth; Calbindin; Parvalbumin; Inhibitory neuron (Wahle, P. (99) 72)

Retinal cell type
Cholinesterase; Choline acetyltransferase; Inner nuclear layer; Neurotransmitter (Reiss, Y. (100) 62)

Retinal development
Albino; Photoreceptor; Tyrosinase gene; Ganglion cell layer; Melanin (Jeffery, G. (99) 95)

Amacrine cell; Ganglion cell; Interplexiform cell (Casini, G. (99) 131)

Ganglion cell; Superior colliculus; Peptide (Fontanesi, G. (103) 119)

Retinal ganglion cell
Retinogeniculate; Development; Tetrodotoxin; Pattern formation; Spontaneous activity (Cramer, K.S. (98) 287)

Retinal termination zone
Accessory optic system; Retinal afferent; Differential cell growth; Calbindin; Parvalbumin; Inhibitory neuron (Wahle, P. (99) 72)

Retinogeniculate
Development; Tetrodotoxin; Pattern formation; Retinal ganglion cell; Spontaneous activity (Cramer, K.S. (98) 287)

Retinoic acid
Neuroblastoma; Cholinergic neuronal differentiation; LA-N-5; Neuropeptide; Neurotrophic factor; Neural crest (Hill, D.P. (102) 53)

Retrograde influence
Colchicine; Chick embryo; Neuronal death; Cell death; Development (Primi, M.-P. (99) 259)

Retrosplenial cortex
Neurotensin; Parvalbumin; Hippocampus; Presubiculum; Monkey; Fetus (Berger, B. (101) 207)

Rhodopsin
Pineal; Retina; Iodopsin; Differentiation; Cell culture; quail (Araki, M. (104) 71)

R-cognin mRNA
Chick retinal development; Cell adhesion molecule; Protein disulfide isomerase (Phillips, J.L. (104) 143)

RNA editing
AMPA receptor; Development; Kainate receptor; Quantitative PCR; Regulation; Tissue culture (Paschen, W. (98) 271)

RT-PCR
Mouse; Development; Myelin-associated glycoprotein; Oligodendrocyte; Neural co-culture; Embryonal carcinoma P19 cell (Matsuda, Y. (100) 110)

Metabotropic glutamate receptor; Embryocarcinoma cell line P19; Glial cell; Neuronal differentiation in vitro; In situ hybridization (Heck, S. (101) 85)

RU28362
Adrenal steroid receptor; Dentate gyrus; Development; Cell death; TUNEL (Gould, E. (101) 265)

S

S100α
Ciliary neurotrophic factor; Astrogliosis; Activated microglia; GFAP; ED1; PDGF-αR; CNTF-αR (Kahn, M.A. (98) 221)

Sacral / coccygeal ventrolateral nucleus
Clarke's nucleus; Marsupial; Regeneration; Spinal border cell; Stilling's nucleus (Terman, J.R. (102) 309)

Satiety
Gastrin-releasing peptide; Feeding; Development; α-Methyl histamine; Imetit (Kent, P. (102) 87)

S100-β
Microglia; Astrocyte; Oligodendrocyte; Gliogenesis; Lipocortin-1 (Zhang, M.-Z. (101) 27)

SCH 23390
Dopamine; Spiperone; Locomotion; Development; Air-stepping; Decerebrate (McCrea, A.E. (100) 130)

^{125}I-SCH 23982
Dopamine D_1 receptor; c-*fos*; Immediate-early gene; Brain mapping; In situ hybridization; Ontogeny; Fetus (Shearman, L.P. (102) 105)

Scopolamine
Fetal behavioral state; Carbachol; L-5-Hydroxytryptophan; Vasoactive intestinal peptide; Fetal breathing movement; Electrocortical activity (Morrison, J.L. (103) 1)

Seizure
Epilepsy; Development; Neuropathology; Rabbit; Hippocampus; Pilocarpine (Thompson, K. (100) 1)

Hypoxia; Glutamate; NMDA; Development; Dextromethorphan; Passive avoidance; Brain (Laroia, N. (100) 29)

Hyperthermia; GABA; Thiosemicarbazide; Bicuculine; Muscimol; Threshold; Duration; Adenosine (Fukuda, M. (104) 197)

Selective innervation
HNK-1; Chondroitin sulfate proteoglycan; *Xenopus*; Skin; Epidermis; Sensory innervation; Basal lamina (Somasekhar, T. (99) 208)

Sensory
Development; Gustatory; Taste; Nucleus of the solitary tract; Nucleus tractus solitarius; Brainstem; Morphometry (Renehan, W.E. (102) 231)

Sensory innervation
HNK-1; Chondroitin sulfate proteoglycan; *Xenopus*; Skin; Epidermis; Basal lamina; Selective innervation (Somasekhar, T. (99) 208)

Sensory neuron
Sprouting; Skin; Wound; Nerve growth factor; Neonate (Reynolds, M. (102) 275)

Sensory pathway
Vomeronasal organ; Olfactory; Topographic projection; Development; Opossum; *Monodelphis domestica*; G protein (Jia, C. (102) 209)

Sensory system
Marsupial; Neuroembryology; Regeneration; Spinal cord (Wang, X.M. (98) 151)

Serotonergic innervation
Growth; Basal forebrain nuclei; Synapse; Immunocytochemistry (Dinopoulos, A. (99) 38)

Serotonin
5-HT_3 receptor; Spinal cord; Development; Antinociception; Rat (Giordano, J. (98) 142)

Tyrosine hydroxylase; Raphe nucleus; Coexistence; Newborn; Laboratory shrew (Karasawa, N. (99) 121)

Motoneuron; Chick; Development; In vitro (Hayashi, T. (102) 21)

Nicotine; Monoamine; Prenatal period; Dopamine; Stress; Smoking; Pregnancy (Muneoka, K. (102) 117)

Methamphetamine; Neurotoxicity; GFAP; Dopamine; Caudate-putamen; Development (Cappon, G.D. (103) 155)

Brain development; Cocaine; Dexamethasone; Glucocorticoid; Paroxetine; Transporter (McGrath, K.E. (104) 209)

Serotonin-neuron
Human rhombencephalon; Primary culture; Morphological parameter; Morphometric analysis; Cell differentiation (Levallois, C. (99) 243)

Serotonin receptor
Visual cortex; Long-term potentiation; Long-term depression; Development; Plasticity (Kojic, L. (101) 299)

Sex difference
POMC mRNA; Development; SHRP (Halasz, I. (100) 198)

Sex difference in CNS
ChAT; Anti-NGF; Cholinergic system development (Ricceri, L. (101) 273)

Sex differentiation
Steroid receptor; Nitric oxide; Premammillary nucleus; Development; Double staining (Yokosuka, M. (99) 226)

Sexual differentiation
Hypothalamus; Calbindin-D_{28k}; Development; Rat; Glucocorticoid; Western analysis; Fetal (Lephart, E.D. (100) 117)

$GABA_A$ receptor; Ventromedial hypothalamus; Hippocampus; Muscimol binding; Gonadal hormone (Clark, A.S. (103) 195)

Sexual dimorphism
Androgen manipulation; Catecholamine; Rat brain; Differentiation (Siddiqui, A. (98) 247)

SHRP
POMC mRNA; Sex difference; Development (Halasz, I. (100) 198)

Sialidation and channel function during development
Voltage-dependent sodium channel; Rat forebrain (Castillo, C. (104) 119)

Signal transduction
Actin-binding protein; Cytoskeletal protein; Development; Growth factor; Nervous system (Zhang, F.X. (99) 216)

Silent synapse
Synaptogenesis; Glutamatergic synapse; NMDA receptor; Non-NMDA receptor; Culture; Development (Kiyosue, K. (99) 201)

Single channel
Glycine; Gamma aminobutyric acid; Chloride channel; Zinc (Virginio, C. (98) 30)

Skin
HNK-1; Chondroitin sulfate proteoglycan; *Xenopus*; Epidermis; Sensory innervation; Basal lamina; Selective innervation (Somasekhar, T. (99) 208)

Sensory neuron; Sprouting; Wound; Nerve growth factor; Neonate (Reynolds, M. (102) 275)

Slice preparation
Lateral geniculate nucleus; Ifenprodil; Ferret; Retinal activity; Development; NMDA receptor; Tetrodotoxin (Ramoa, A.S. (101) 165)

Smoking
Nicotine; Monoamine; Prenatal period; Serotonin; Dopamine; Stress; Pregnancy (Muneoka, K. (102) 117)

SNC 80
Delta opioid; Development; Dopamine receptor; Nucleus accumbens; Postnatal exposure; Rat; Striatum (Shieh, G.-J. (103) 209)

Sodium channel
Proton; Calcium channel; Rat embryo; Spinal cord; Neuron (Li, Y.-X. (102) 261)

Solution hybridization
Enkephalin; Tyrosine hydroxylase; Syrian hamster; Adrenal; Striatum; Development; Splanchnic nerve (Franklin, S.O. (101) 239)

Somatostatin
Retina; Amacrine; Enkephalin; Neurotensin; Development (Yang, D.S. (101) 57)

Spaceflight
Choroid plexus; Gravity; Carbonic anhydrase II; Ezrin; Electron microscopy; Immunocytochemistry (Mani-Ponset, L. (99) 187)

SPI3 gene
HoxB5; Target gene; Central nervous system; DNA binding (Safaei, R. (100) 5)

Spina bifida
Mutant; Embryo; Mouse; Neural tube defect; Cell proliferation; Morphogenesis; Neurulation; Embryo culture (Gerrelli, D. (102) 217)

Spina bifida cystica
Neural tube defect; Spinal cord; Spinal dysraphism; Myeloschisis; Meningomyelocele (Keller-Peck, C.R. (102) 177)

Spinal border cell
Clarke's nucleus; Marsupial; Regeneration; Sacral/coccygeal ventrolateral nucleus; Stilling's nucleus (Terman, J.R. (102) 309)

Spinal cord
Serotonin; $5\text{-}HT_3$ receptor; Development; Antinociception; Rat (Giordano, J. (98) 142)

Marsupial; Neuroembryology; Regeneration; Sensory system (Wang, X.M. (98) 151)

Spina bifida cystica; Neural tube defect; Spinal dysraphism; Myeloschisis; Meningomyelocele (Keller-Peck, C.R. (102) 177)

Proton; Calcium channel; Sodium channel; Rat embryo; Neuron (Li, Y.-X. (102) 261)

Floor plate; Extracellular matrix; Integrin; TGF β; Axon; Pathfinding; Danforth's short tail (Ohyama, K. (103) 143)

Spinal cord development
Opossum; *Monodelphis domestica*; Neurofilament; GFAP; Vimentin (Breckenridge, L.J. (103) 47)

Spinal dysraphism
Spina bifida cystica; Neural tube defect; Spinal cord; Myeloschisis; Meningomyelocele (Keller-Peck, C.R. (102) 177)

Spinal ganglion
Transcription factor; Brn-3a; Chicken; Quantitative PCR; Trigeminal ganglion; NGF; NT-3 (Lindeberg, J. (100) 169)

Spiperone
Dopamine; SCH 23390; Locomotion; Development; Air-stepping; Decerebrate (McCrea, A.E. (100) 130)

Spiral lamina growth
Hair cell; Development (Mu, M.Y. (99) 29)

Splanchnic nerve
Enkephalin; Tyrosine hydroxylase; Syrian hamster; Adrenal; Striatum; Development; Solution hybridization (Franklin, S.O. (101) 239)

Spontaneous action potential
Hippocampus; Organotypic culture; Synaptogenesis; Epileptogenesis (Nakagami, Y. (103) 99)

Spontaneous activity
Retinogeniculate; Development; Tetrodotoxin; Pattern formation; Retinal ganglion cell (Cramer, K.S. (98) 287)

Spreading depression
Locus coeruleus; Development; Antidromic response; Negative feedback; α_2-Adrenoceptor (Fujii, Y. (104) 91)

Sprouting
Motoneuron; Muscle; Nerve terminal; Development; Synapse (Sheard, P.W. (98) 259)

Sensory neuron; Skin; Wound; Nerve growth factor; Neonate (Reynolds, M. (102) 275)

SSEA-1
FAL; Cell–cell interaction; Subplate; Radial glia (Ashwell, K.W.S. (100) 143)

Status epilepticus
Pilocarpine; γ-Aminobutyric acid; Hippocampus; Cortex (Sankar, R. (98) 60)

Preproenkephalin; Kainic acid; Hippocampus; Calcium uptake; Development; Rat (Friedman, L.K. (101) 287)

Stearoyl-CoA desaturase
Brain; Myelination; Fatty acid synthase; Acetyl-CoA carboxylase; Long-chain acyl-CoA synthase (Garbay, B. (98) 197)

Stem cell
Striatum; Development; Progenitor (Rosser, A.E. (98) 291)

Rat; Mouse; Epidermal growth factor; Fibroblast growth factor; Progenitor; Proliferation; Electron microscopy (Svendsen, C.N. (99) 253)

Stereological study
Zinc-positive presynaptic bouton; Ultrastructural maturation; Absolute numbers estimation; Densitometry (Sanchez-Andres, J.V. (103) 171)

Stereotypy
Neonatal lesion; Hippocampus; Ibotenic acid; Amphetamine; Apomorphine; Dopamine (Wood, G.K. (101) 17)

Steroid receptor
Sex differentiation; Nitric oxide; Premammillary nucleus; Development; Double staining (Yokosuka, M. (99) 226)

Stilling's nucleus
Clarke's nucleus; Marsupial; Regeneration; Sacral/coccygeal ventrolateral nucleus; Spinal border cell (Terman, J.R. (102) 309)

Strabismus
Visual system development; Oculomotor; Deprivation (Garraghty, P.E. (100) 127)

Stress
Nicotine; Monoamine; Prenatal period; Serotonin; Dopamine; Smoking; Pregnancy (Muneoka, K. (102) 117)

Stress-hyporesponsive period
Brown Norway; Aging; Rat; Maternal deprivation; ACTH; Corticosterone (Workel, J.O. (103) 199)

Striatal neuron
GABA; Neuronal survival; $GABA_A$ receptor; L-type voltage-dependent Ca^{2+} channel; Development (Ikeda, Y. (98) 253)

Striatum
Stem cell; Development; Progenitor (Rosser, A.E. (98) 291)

Enkephalin; Tyrosine hydroxylase; Syrian hamster; Adrenal; Development; Solution hybridization; Splanchnic nerve (Franklin, S.O. (101) 239)

Pallidum; Graft; GABA receptor; Development; Transplantation (Liste, I. (103) 185)

Delta opioid; Development; Dopamine receptor; Nucleus accumbens; Postnatal exposure; Rat; SNC 80 (Shieh, G.-J. (103) 209)

Dopamine; Gestation; Macaque; Receptor autoradiography; Substantia nigra (Fang, Y. (104) 163)

Structure
Fetal; Hypoxemia; Brain; Development; Hippocampus; Cerebral cortex; Cerebellum (Rees, S. (103) 103)

Subcellular distribution
Enkephalin; Cerebellum; Development; Aminopeptidase; Enzyme (De Gandarias, J.M. (99) 66)

Subcommissural organ
Floor plate; Flexural organ; Dogfish embryo (*Scyliorhinus canicula*); Immunocytochemistry (López-Avalos, M.D. (102) 69)

Ependymal cell; Reissner's fiber; Primary chick spinal cord cell culture; Neuronal survival; Neuronal aggregation; Development (Monnerie, H. (102) 167)

Subnucleus interpolaris
Explant coculture; Voltage-dependent conductance; Rat trigeminal pathway; Pattern formation (Erzurumlu, R.S. (101) 37)

Subplate
FAL; Cell–cell interaction; SSEA-1; Radial glia (Ashwell, K.W.S. (100) 143)

Ferret; Astrocyte; Microglia; Oligodendrocyte; Gliogenesis (Berman, N.E.J. (101) 149)

Subplate neurons
NMDA receptor; Synaptogenesis; Area 17; Receptor clustering; Ocular dominance plasticity (Aoki, C. (98) 41)

Substantia nigra
Natural cell death; Apoptosis; Dopaminergic; Developmental; Parkinson's disease (Oo, T.F. (98) 191)

Perinatal asphyxia; Dopamine; Aspartate; Glutamate; Neostriatum; Ventral tegmental area; Nucleus accumbens; Rat (Chen, Y. (104) 19)

Dopamine; Gestation; Macaque; Receptor autoradiography; Striatum (Fang, Y. (104) 163)

Superior cervical ganglion
Sympathetic nervous system; Denervation; Iris; Reinnervation; Orbit; Anterior chamber; Transplant (Hiebert, J.M. (100) 35)

Superior colliculus
Tectum; Developmental plasticity; Vision; Experience-dependent (Binns, K.E. (99) 263)

Ganglion cell; Peptide; Retinal development (Fontanesi, G. (103) 119)

Superior olivary complex
Whole-cell patch-clamp recording; Brainstem slice; Medial nucleus of the trapezoid body; Synapse maturation; Picrotoxin; Cyanotriphenylborate (Kungel, M. (102) 157)

Suprachiasmatic nucleus
Neuroendocrine; Arcuate nucleus; Circadian; Glutamate receptor; Presynaptic; Metabotropic (Ghosh, P.K. (102) 1)

Survival
IGF-I; Differentiation; Mouse; Cerebellum; Granule cell (Lin, X. (99) 234)

Swimming
Cerebellum; Lurcher mutant; Motor coordination; Visuomotor coordination; Equilibrium (Thullier, F. (100) 22)

Sympathetic nervous system
Denervation; Iris; Reinnervation; Superior cervical ganglion; Orbit; Anterior chamber; Transplant (Hiebert, J.M. (100) 35)

Sympathetic neuron
Dendrite; Leukemia inhibitory factor; Ciliary neurotrophic factor; Osteogenic protein-1; Bone morphogenetic protein (Guo, X. (104) 101)

Synapse
Motoneuron; Muscle; Nerve terminal; Development; Sprouting (Sheard, P.W. (98) 259)

Serotonergic innervation; Growth; Basal forebrain nuclei; Immunocytochemistry (Dinopoulos, A. (99) 38)

Synapse maturation
Whole-cell patch-clamp recording; Brainstem slice; Superior olivary complex; Medial nucleus of the trapezoid body; Picrotoxin; Cyanotriphenylborate (Kungel, M. (102) 157)

Synapsin I
Retina; Development; Synaptophysin; Syntaxin; Immunocytochemistry; Rat (Dhingra, N.K. (102) 267)

Synaptic maturation
Synaptogenesis; Rat hippocampal culture; Presynaptic terminal; Synelfin; Synuclein; Non-amyloid component precursor (Withers, G.S. (99) 87)

Synaptic protein
Embryonal carcinoma; Neuronal cell-line; Neuronal polarity; Neurotransmitter release (Parnas, D. (101) 115)

Synaptogenesis
NMDA receptor; Area 17; Receptor clustering; Subplate neurons; Ocular dominance plasticity (Aoki, C. (98) 41)

Newt; Retina; Regeneration; γ-Aminobutyric acid; Immunohistochemistry; Whole-cell patch-clamp; High-pressure liquid chromatography (Chiba, C. (98) 204)

Rat hippocampal culture; Synaptic maturation; Presynaptic terminal; Synelfin; Synuclein; Non-amyloid component precursor (Withers, G.S. (99) 87)

Silent synapse; Glutamatergic synapse; NMDA receptor; Non-NMDA receptor; Culture; Development (Kiyosue, K. (99) 201)

Nerve growth factor; Basal forebrain; Immunohistochemistry (Conner, J.M. (101) 67)

Hippocampus; Organotypic culture; Spontaneous action potential; Epileptogenesis (Nakagami, Y. (103) 99)

Synaptophysin
Rab3A; Vestibular afferent; Vestibular sensory cell; Development; Immunocytochemistry; Rat; Mouse (Dechesne, C.J. (99) 103)

Retina; Development; Synapsin I; Syntaxin; Immunocytochemistry; Rat (Dhingra, N.K. (102) 267)

Astrocyte; Respiration; Cell death; Extracellular matrix; Neurite (Gressens, P. (103) 21)

Synelfin
Synaptogenesis; Rat hippocampal culture; Synaptic maturation; Presynaptic terminal; Synuclein; Non-amyloid component precursor (Withers, G.S. (99) 87)

Syntaxin
Retina; Development; Synaptophysin; Synapsin I; Immunocytochemistry; Rat (Dhingra, N.K. (102) 267)

Synuclein
Synaptogenesis; Rat hippocampal culture; Synaptic maturation; Presynaptic terminal; Synelfin; Non-amyloid component precursor (Withers, G.S. (99) 87)

Syrian hamster
Enkephalin; Tyrosine hydroxylase; Adrenal; Striatum; Development; Solution hybridization; Splanchnic nerve (Franklin, S.O. (101) 239)

T

Target gene
HoxB5; Central nervous system; DNA binding; SPI3 gene (Safaei, R. (100) 5)

Taste
Development; Gustatory; Nucleus of the solitary tract; Nucleus tractus solitarius; Sensory; Brainstem; Morphometry (Renehan, W.E. (102) 231)

Tectum
Superior colliculus; Developmental plasticity; Vision; Experience-dependent (Binns, K.E. (99) 263)

Telencephalon
Development; Differential display; Rat; In situ hybridization; Forebrain; Hippocampus (Hatanaka, Y. (98) 65)

Tetrodotoxin
Retinogeniculate; Development; Pattern formation; Retinal ganglion cell; Spontaneous activity (Cramer, K.S. (98) 287)

Thrombin; Acetyl choline; Hirudin; Cultured muscle; Gene expression; Protease nexin I (Glazner, G.W. (99) 148)

Lateral geniculate nucleus; Ifenprodil; Ferret; Retinal activity; Development; NMDA receptor; Slice preparation (Ramoa, A.S. (101) 165)

TGF β
Floor plate; Extracellular matrix; Integrin; Axon; Pathfinding; Spinal cord; Danforth's short tail (Ohyama, K. (103) 143)

Thalamus
Adrenergic receptor; In situ hybridization; Angiogenesis; Basal ganglia; Cerebellum (Winzer-Serhan, U.H. (100) 90)

Thiosemicarbazide
Hyperthermia; GABA; Bicuculine; Muscimol; Seizure; Threshold; Duration; Adenosine (Fukuda, M. (104) 197)

Threshold
Hyperthermia; GABA; Thiosemicarbazide; Bicuculine; Muscimol; Seizure; Duration; Adenosine (Fukuda, M. (104) 197)

Thrombin
Acetyl choline; Hirudin; Cultured muscle; Tetrodotoxin; Gene expression; Protease nexin I (Glazner, G.W. (99) 148)

Thyroid hormone
Low iodine diet; Methylmercaptoimidazole; Myelin basic protein; Internal capsule; Development (Martinez-Galan, J.R. (101) 249)

Thyroid hormone, role in development of TGF-β receptor mRNA
Propylthiouracil, effects on TGF-β receptor expression; Transforming growth factor-β receptors, in developing brain (Slotkin, T.A. (99) 61)

Tight junction
Blood–brain barrier; Blood–retina barrier; Glucose transporter; HT7; Chicken; Pecten oculi (Liebner, S. (100) 205)

Time-lapse video microscopy
Growth cone; Adhesion molecule; Interference reflection microscopy; Neurite growth (Drazba, J. (100) 183)

Tissue culture
AMPA receptor; Development; Kainate receptor; Quantitative PCR; Regulation; RNA editing (Paschen, W. (98) 271)

Neocortex; Organotypic slice; Dendritic morphology; APV/DNQX; Bioelectric activity (Baker, R.E. (104) 31)

C-6 glioma; Human retinal endothelial cell; Growth factor; Glutamate; Brain/retinal blood barrier (Spoerri, P.E. (104) 205)

Tomato lectin histochemistry
Lymphocyte function-associated antigen-1 alpha; Intercellular adhesion molecule-1; β_2-integrin; Immunoglobulin superfamily; Blood vessel (Dalmau, I. (103) 163)

Topographic projection
Vomeronasal organ; Olfactory; Sensory pathway; Development; Opossum; *Monodelphis domestica*; G protein (Jia, C. (102) 209)

Transcription factor
Brn-3a; Chicken; Quantitative PCR; Spinal ganglion; Trigeminal ganglion; NGF; NT-3 (Lindeberg, J. (100) 169)

Transforming growth factor-β receptors, in developing brain
Propylthiouracil, effects on TGF-β receptor expression; Thyroid hormone, role in development of TGF-β receptor mRNA (Slotkin, T.A. (99) 61)

Transitin
Midline radial glia; Astrocyte; Glial fibrillary acidic protein; Vimentin (Cole, G.J. (101) 225)

Transplant
Sympathetic nervous system; Denervation; Iris; Reinnervation; Superior cervical ganglion; Orbit; Anterior chamber (Hiebert, J.M. (100) 35)

Transplantation
Graft; Nitric oxide; Nitric oxide synthase; Neuropeptide Y; Choline acetyltransferase (ChAT); Nucleus basalis magnocellularis (NBM) (Shoham, S. (99) 155)

Cerebellum; Graft; In situ hybridization; *N*-Methyl-D-aspartate receptor; γ-Aminobutyric acid A receptor (Sommer, C. (102) 225)

Striatum; Pallidum; Graft; GABA receptor; Development (Liste, I. (103) 185)

Transporter
Brain development; Cocaine; Dexamethasone; Glucocorticoid; Paroxetine; Serotonin (McGrath, K.E. (104) 209)

Trigeminal ganglion
Transcription factor; Brn-3a; Chicken; Quantitative PCR; Spinal ganglion; NGF; NT-3 (Lindeberg, J. (100) 169)

TrkB
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Leech; Multicellular cooperation; Renin–angiotensin system (Vandenbulcke, F. (49) 229)

Angiotensin II
Antisense oligonucleotide; Angiotensinogen; Isoproterenol; Renin; Thirst; Water intake (Sinnayah, P. (50) 43)

Angiotensin II type 2 receptor
Nerve growth factor; Insulin; Protein kinase C; Neuron (Huang, X.-C. (47) 229)

Angiotensinogen
Antisense oligonucleotide; Angiotensin II; Isoproterenol; Renin; Thirst; Water intake (Sinnayah, P. (50) 43)

Angiotensin receptor
Molecular cloning; N1E-115 cell; AT_2 receptor heterogeneity (Yee, D.K. (45) 108)

Angiotensin; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Animal model
Tyrosine hydroxylase; Dopamine; Rat strain; Outbreding/inbreding; DNA polymorphism (Murru, S. (45) 345)

Intracerebral grafting; Embryonic ventral mesencephalon; Dopamine agonist; Parkinson's disease (Cenci, M.A. (48) 149)

AMPA receptor; Focal ischemia; Transgenic mouse; Excitotoxicity; GluR2-flip (Le, D. (52) 235)

Annelid
Leech; Prodynorphin; Neuropeptide; Sequence; Opioid; Phylogeny (Salzet, M. (52) 46)

Anoxia
Heat shock protein (HSP); Ubiquitin (UB); Superoxide dismutase (SOD); Cytochrome oxidase (COX); *Drosophila*; Slot blot; mRNA (Ma, E. (46) 325)

Antibody
$GABA_A$ receptor; Benzodiazepine receptor; mRNA; Aging; Rat brain (Gutiérrez, A. (45) 59)

Glutamate; NMDA; Receptor; Glycosylation; Hybridization, in situ; mRNA; Rat brain (Ciabarra, A.M. (46) 85)

Antibody purification
β-Amyloid precursor protein; Western and dot-blot analysis; Immunocytochemistry; APP localisation in brain cell; Cultured astrocyte and neuron; Alzheimer's disease (Rohan de Silva, H.A. (47) 147)

Anti-CV2-autoantibody
Unc-33-like cDNA; Gene expression; Brain specificity; Paraneoplastic neurological syndrome (Quach, T.T. (46) 329)

Antidepressant
Serotonin transporter; Mouse; Gene organization; Promoter; Anxiety; Alcoholism; Affective disorder (Bengel, D. (44) 286)

Antidepressant drug
Haloperidol; Clozapine; Amperozide; Raclopride; Serotonin; Substance P; Somatostatin (Marcus, M.M. (45) 275)

Antinociception
Antisense oligodeoxynucleotides; δ-Opioid receptor; [D-Ala^2]deltorphin II; mRNA; Supraspinal (Lee, C.E. (48) 17)

Antipeptide antibody
D4 dopaminergic receptor; Benzamide binding; Immunocytochemistry; Rat brain (Defagot, M.C. (45) 1)

Antipsychotic drug
Schizophrenia; Serotonin receptor; mRNA; Clozapine; Haloperidol; Sulperide (Buckland, P.R. (48) 45)

Antipsychotics
Glutamate; Hybridization, in situ; Schizophrenia; Nucleus accumbens (Healy, D.J. (47) 331)

D_1-receptor; D_2-receptor; Proenkephalin; Glutamic acid decarboxylase (GAD); Basal ganglion; Entopeduncular nucleus; Striatum (Coirini, H. (49) 197)

Antisense
α_2-Adrenergic receptor; α_2-Adrenoceptor; Caudate-putamen; Striatum (Lu, L. (47) 267)

Immediate-early gene; Suppression; Rotation; Basal ganglia (Hebb, M.O. (48) 97)

α_2-Adrenergic receptor; α_2-Adrenoceptor; Caudate-putamen; Striatum; Adenosine cyclic 3′,5′-monophosphate (cAMP); Forskolin; Adenylyl cyclase (Lu, L. (52) 228)

Antisense oligodeoxynucleotides
End-capped phosphorothioate; Nuclease resistance; Gene suppression (Hebb, M.O. (47) 223)

Antinociception; δ-Opioid receptor; [D-Ala^2]deltorphin II; mRNA; Supraspinal (Lee, C.E. (48) 17)

Antisense oligonucleotide
Angiotensinogen; Angiotensin II; Isoproterenol; Renin; Thirst; Water intake (Sinnayah, P. (50) 43)

Antisense transcripts
Potassium channel; In situ hybridization; Cellular localization; Co-localization; Heteromultimer formation (Verma-Kurvari, S. (46) 54)

Anxiety
Serotonin transporter; Mouse; Gene organization; Promoter; Antidepressant; Alcoholism; Affective disorder (Bengel, D. (44) 286)

AP-1
NF-κB; Glucocorticoid; IκB; Oxidative stress (Unlap, M.T. (45) 83)

NMDA receptor; Striatum; Transcription factor; Nerve growth factor (Hollen, K.M. (47) 31)

Opioid receptor; Electrophoretic mobility-shift assay; Transcriptional regulation; Down-regulation; Up-regulation (Tencheva, Z.S. (48) 156)

Fibroblast growth factor; Tyrosine hydroxylase; PC12 cells; Transcription; Nerve growth factor (Osaka, H. (49) 222)

Lithium; Bipolar disorder; Transcription factor; NF-κB; Cholinergic stimulation (Jope, R.S. (50) 171)

6-Hydroxydopamine; Priming; Supersensitivity; Dopamine agonist; FosB; JunD; cFos (Vallone, D. (52) 307)

AP2 dbcAMP
Human choline acetyltransferase; Promoter; Transactivation; NGFI-A; NGFI-C (Quirin-Stricker, C. (49) 165)

APE
Global cerebral ischemia; Reperfusion injury; Oxidative stress; Redox regulation; APEX; Jun; Fos; Neuronal cell death (Gillardon, F. (52) 194)

APEX
Global cerebral ischemia; Reperfusion injury; Oxidative stress; Redox regulation; APE; Jun; Fos; Neuronal cell death (Gillardon, F. (52) 194)

ApoE
Alzheimer's disease; NAC; Binding (Olesen, O.F. (44) 105)

Apoptosis
Ref-1; c-Jun; Hypoxia-ischemia; Programmed cell death (Walton, M. (44) 167)

Excitotoxicity; Serum deprivation; Phosphorylated tau; Primary neuronal culture (Lesort, M. (45) 127)

Down's syndrome; Alzheimer's disease; Bcl-2; Bax; Bcl-x (Sawa, A. (48) 53)

Axonal regeneration; Interleukin-1β-converting enzyme; Retinal ganglion cell (Lucius, R. (48) 181)

Cerebral ischemia; Rat; Hippocampus; Ischemia; NF-κB; Neurodegeneration (Clemens, J.A. (48) 187)

Etoposide; PC12 cell; DNA fragmentation; Programmed cell death; Nerve growth factor (NGF) (Saura, J. (48) 382)

Protein kinase C; Bcl-2; Bcl-X_L; Bax; Trifluoperazine; Staurosporine; Calphostin C (Oh, Y.J. (51) 133)

APP localisation in brain cell
β-Amyloid precursor protein; Antibody purification; Western and dot-blot analysis; Immunocytochemistry; Cultured astrocyte and neuron; Alzheimer's disease (Rohan de Silva, H.A. (47) 147)

Arcuate nucleus
Digoxigenin; Hypothalamus; ISHH; Opioid; Parity; POMC; Pregnancy (Mann, P.E. (46) 9)

Area postrema
Nucleus of the solitary tract; Pancreatic polypeptide; Gut–brain axis; Drinking; Feeding (Larsen, P.J. (48) 1)

Arginine vasopressin
Choroid plexus; Immunohistochemistry; Hybridization histochemistry, in situ; Rat (Chodobski, A. (48) 67)

Aromatase
Steroidogenic factor-1; SF-1; Ad4BP; Cytochrome P450; Brain; Rat (Roselli, C.E. (44) 66)

Aromatic L-amino acid decarboxylase
LSD; Phencyclidine; Schizophrenia; Dopa decarboxylase; Candidate gene (Buckland, P.R. (49) 266)

ARP-1
Neuroblastoma cell; DNA binding protein; COUP-TF; Retinoid X receptor; Enkephalin (Chan, R.M. (45) 50)

Arrestin
Phosducin; Pinealocyte; Brain; Transgenic mouse; β-Gal expression (Sunayashiki-Kusuzaki, K. (52) 112)

Assembly
N-Glycosylation; ACh receptor; *Xenopus* oocyte; Toxin binding site (Gehle, V.M. (45) 219)

Astrocyte
Mouse; Injury; Neuronal activity; Glial fibrillary acidic protein (Fujiki, M. (44) 301)

Nitric oxide; Monocyte; Macrophage; Microglia; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat (Mancuso, C. (45) 294)

HEK293 cell; Neurotrophin; Transfection; Cell-free RNA decay; mRNA half-life; RNA-binding protein (Tang, B. (46) 118)

Brain; Ecto-apyrase; Ecto-ATPase; CD39; Neuron; Gene (Wang, T.-F. (47) 295)

Central nervous system; C5a anaphylatoxin receptor; Rat; cDNA; RT-PCR; Microfluorimetry (Sayah, S. (48) 215)

Glucocorticoid; Growth factor; Hippocampus; mRNA; RNase protection; ELISA (Niu, H. (51) 97)

Ceramide; Mitogen-activated protein kinase; Nerve growth factor; Raf-1; Sphingomyelinase (Galve-Roperh, I. (52) 90)

Astrocyte proliferation
Inhibitor of DNA binding; Id; Helix-loop-helix; Astrogliosis; Glial fibrillary acidic protein (Tzeng, S.-F. (46) 136)

Astroglia
Frequenin; Ca^{2+}-binding protein; Hybridization, in situ; Immunocytochemistry; Synapse (Olafsson, P. (44) 73)

Vasopressin receptor; RT-PCR; Neuron; Oligodendroglia; mRNA; Cerebral cortex; Learning and memory (Yamazaki, R.S. (45) 138)

Astrogliosis
Brain injury; Heat-shock protein; Stroke; Stress gene (Plumier, J.-C.L. (45) 239)

Inhibitor of DNA binding; Id; Helix-loop-helix; Astrocyte proliferation; Glial fibrillary acidic protein (Tzeng, S.-F. (46) 136)

Neurotrophic factor; Senile plaque; β-Amyloid protein; Neurodegeneration (Connor, B. (49) 283)

ATP receptor
Ligand-gated channel; P2X; Human spinal cord; Human heart (Garcia-Guzman, M. (47) 59)

AT_2 receptor
Angiotensin; Angiotensin receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Angiotensin; Mutagenesis; Ligand binding (Yee, D.K. (51) 238)

AT_2 receptor heterogeneity
Angiotensin receptor; Molecular cloning; N1E-115 cell (Yee, D.K. (45) 108)

Auditory neuron
Cisplatin neurotoxicity; Reactive oxygen species; Glutathione (Gabaizadeh, R. (50) 71)

Autocrine regulation
Gonadotropin-releasing hormone; GT1-1 cell; Transcriptional regulation (Cho, S. (50) 51)

Autoradiography
Girisopam; 2,3-Benzodiazepine; Striatal lesion; AMPA; Striato-nigral transection (Horváth, E.J. (45) 141)

Cannabinoid receptor binding; Cannabinoid receptor mRNA levels; Δ^9-Tetrahydrocannabinol; Northern blot (Romero, J. (46) 100)

AvGp50
Axonally expressed; Immunoglobulin superfamily; Opioid binding cell adhesion molecule (OB-CAM); Limbic system-associated membrane protein (LAMP); Neurotrimin (Hancox, K.A. (44) 273)

Avian
Excitatory amino-acid receptor; *Gallus domesticus*; RT-PCR; Splice variant; Alternative splicing (Ravindranathan, A. (50) 143)

Axon
Neurofilament; Cytoskeleton; Protein phosphatase; Protein kinase; Spinal cord (Strack, S. (49) 15)

Axonal glycoprotein
F3; Cell adhesion; Immunoglobulin superfamily; Neural-specific promoter; Transmembrane signalling; Nuclear protein (Cangiano, G. (48) 279)

Axonal guidance
Eph family receptor; Hybridization, in situ; Neurogenesis; Limbic system; Topographic projection (Zhang, J.-H. (47) 202)

Axonally expressed
AvGp50; Immunoglobulin superfamily; Opioid binding cell adhesion molecule (OB-CAM); Limbic system-associated membrane protein (LAMP); Neurotrimin (Hancox, K.A. (44) 273)

Axonal regeneration
Apoptosis; Interleukin-1β-converting enzyme; Retinal ganglion cell (Lucius, R. (48) 181)

Axon guidance
Semaphorin; Collapsin; Innervation; Somite; Myotome; Dorsal root ganglia (Kikuchi, K. (51) 229)

Axotomy
Stress protein; Dorsal root ganglion; Heat-shock protein; Protein synthesis; Electrophoresis (Tedeschi, B. (45) 199)

Microtubule-associated protein tau; Sciatic nerve; Nerve regeneration (Chambers, C.B. (48) 115)

Brain-derived neurotrophic factor; c-jun; Dorsal root ganglion; JunB; JunD; Nerve growth factor; Rhizotomy (Kenney, A.M. (52) 53)

junB
Brain irradiation; Gene expression; c-*fos*; Pentobarbital; Glucocorticoid (Hong, J.-H. (48) 223)

B

Baculovirus
AMPA receptor; Glutamate receptor channel; α_1-Subunit; Ion channel; Agonist-binding site; Site-directed mutagenesis; Insect cell (Kawamoto, S. (47) 339)

Basal forebrain
Ginsenoside; Cholinergic; Neurotrophin; Hippocampus; Hybridization, in situ (Salim, K.N. (47) 177)

Basal ganglia
Antisense; Immediate-early gene; Suppression; Rotation (Hebb, M.O. (48) 97)

Somatostatin; Hybridization, in situ; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Medial medullary lamina (Eve, D.J. (50) 59)

Serotonergic lesion; Met-enkephalin; Substance P; Immunocytochemistry; In situ hybridization histochemistry; Rat (Compan, V. (50) 246)

Basal ganglion
Parkinson's disease; GABAergic transmission; Rat (Caruncho, H.J. (48) 243)

D_1-receptor; D_2-receptor; Proenkephalin; Glutamic acid decarboxylase (GAD); Entopeduncular nucleus; Striatum; Antipsychotics (Coirini, H. (49) 197)

Basal nucleus of Meynert
Amyloid β-protein; Amyloid β-protein, precursor; Rat; Alzheimer's disease; Cerebrospinal fluid; Cerebral cortex; Acetylcholine; Acetylcholinesterase; Acetylcholinesterase inhibitor; Butyrylcholinesterase (Haroutunian, V. (46) 161)

Excitotoxicity; Flip; Flop; Globus pallidus; Glutamate receptor; Nucleus accumbens; Striatum (Tomiyama, M. (46) 281)

Basement membrane
Transcription factor; DNA-binding protein (Kedar, V. (47) 87)

Bax
Cerebellum; Purkinje cell; Retinal bipolar neuron; PEP-19; Dendrite (Vassileva, G. (46) 333)

Down's syndrome; Alzheimer's disease; Apoptosis; Bcl-2; Bcl-x (Sawa, A. (48) 53)

Apoptosis; Protein kinase C; Bcl-2; Bcl-X_L; Trifluoperazine; Staurosporine; Calphostin C (Oh, Y.J. (51) 133)

Bcl-2
Down's syndrome; Alzheimer's disease; Apoptosis; Bax; Bcl-x (Sawa, A. (48) 53)

Apoptosis; Protein kinase C; Bcl-X_L; Bax; Trifluoperazine; Staurosporine; Calphostin C (Oh, Y.J. (51) 133)

Bcl-x
Down's syndrome; Alzheimer's disease; Apoptosis; Bcl-2; Bax (Sawa, A. (48) 53)

Bcl-X_L
Apoptosis; Protein kinase C; Bcl-2; Bax; Trifluoperazine; Staurosporine; Calphostin C (Oh, Y.J. (51) 133)

BDNF
NGF; Neurotrophin receptor; Pituitary gland; Thyroid hormone; Rat (Calzà, L. (51) 60)

Bed nucleus of the stria terminalis
Galanin; Cholinergic; Acetylcholine; GALR1; Amygdala (Miller, M.A. (52) 121)

Behavioral dependence
Ethanol; Dopamine receptor; mRNA quantification (Eravci, M. (50) 221)

Benzamide binding
D4 dopaminergic receptor; Antipeptide antibody; Immunocytochemistry; Rat brain (Defagot, M.C. (45) 1)

2,3-Benzodiazepine
Girisopam; Striatal lesion; AMPA; Striato-nigral transection; Autoradiography (Horváth, E.J. (45) 141)

Benzodiazepine receptor
$GABA_A$ receptor; mRNA; Aging; Antibody; Rat brain (Gutiérrez, A. (45) 59)

Benzodiazepine tolerance; Ligand-gated ion-channel; Nuclear run-off assay; Gene regulation (Holt, R.A. (48) 164)

Benzodiazepine tolerance
Benzodiazepine receptor; Ligand-gated ion-channel; Nuclear run-off assay; Gene regulation (Holt, R.A. (48) 164)

Biliverdin
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Carbon monoxide; Vasopressin; Heme oxygenase; Hemin; Hypothalamus (Mancuso, C. (50) 267)

Binding
Alzheimer's disease; ApoE; NAC (Olesen, O.F. (44) 105)

Neurotensin; Receptor; Mutagenesis; Charged amino acid (Botto, J.-M. (46) 311)

Biogenic amine
Catecholamine (CA); Serotonin transporter (SERT); Norepinephrine transporter (NET); Dopamine transporter (DAT) (Padbury, J.F. (45) 163)

Bipolar disorder
Lithium; Transcription factor; AP-1; NF-κB; Cholinergic stimulation (Jope, R.S. (50) 171)

Bisulfite sequencing
Tyrosine hydroxylase; DNA methylation; cAMP response element binding protein; DNA–protein interaction; Gene silencing; Neuronal differentiation; Transcriptional regulation (Okuse, K. (46) 197)

BK channel
Calcium-activated K^+ channel; α Subunit; β Subunit; Differential expression; Channel diversity (Chang, C.-P. (45) 33)

Blood–brain barrier
Cerebral ischemia; Edema; Delayed neuronal death; Gerbil; Hippocampus (Rao, A.M. (44) 134)

Osmolyte; Hypertonicity; Vasogenic edema (Yamashita, T. (46) 236)

Osmolyte; Na^+/*myo*-inositol cotransporter (Guo, W. (51) 91)

Brain
Steroidogenic factor-1; SF-1; Ad4BP; Cytochrome P450; Aromatase; Rat (Roselli, C.E. (44) 66)

Northern blot; mRNA; Mitochondria; Oxidative phosphorylation; Energy metabolism; Cerebral cortex; Alzheimer disease (Chandrasekaran, K. (44) 99)

Cocaine; Preprodynorphin; Preproenkephalin; κ Opioid receptor; mRNA; Rat (Spangler, R. (44) 139)

Epilepsy; Neurotrophin; Development; Hybridization, in situ; Electroencephalogram; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Seizure (Kornblum, H.I. (44) 219)

Nitric oxide; Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Phosphatidylinositol transfer protein; Ontogeny; Hybridization, in situ (Utsunomiya, A. (45) 349)

Immediate-early gene; NGFI-A; Rat; Sleep; Sleep deprivation; Wakefulness; Zif/268 (Pompeiano, M. (46) 143)

Fatty acid transport protein; Fatty acid translocase; Ontogeny; In situ hybridization (Utsunomiya, A. (46) 217)

5-HT_{1A} serotonin receptor; cDNA sequence; mRNA expression; Development; Retina; *Xenopus* (Marracci, S. (47) 67)

Fibroblast growth factor (FGF); mRNA; Neuron; Rat; Gene expression (Hattori, Y. (47) 139)

Fibroblast growth factor; Rat; Cerebellum; Granule cell; Development (Hattori, Y. (47) 262)

Ecto-apyrase; Ecto-ATPase; CD39; Neuron; Astrocyte; Gene (Wang, T.-F. (47) 295)

Metallothionein-I; Metallothionein-II; Metallothionein-III; Growth inhibitory factor; IL-6; Endotoxin; Liver (Hernández, J. (48) 125)

Cyclic nucleotide-gated channel; Splice variant; Pineal gland; Glutamic acid-rich protein; Photoreceptor (Sautter, A. (48) 171)

Opioid receptor; δ-Opioid receptor; κ-Opioid receptor; Polymerase chain reaction; G-protein-coupled receptor; Immune cells (Gavériaux-Ruff, C. (48) 298)

Calcium homeostasis; Ion transport; Northern analysis; Digoxin-labeled cDNA; Gene expression; NCX (Yu, L. (50) 285)

Polysialyltransferase; mRNA; Hybridization, in situ; PSA-NCAM; Rat; Development (Wood, G.K. (51) 69)

Arrestin; Phosducin; Pinealocyte; Transgenic mouse; β-Gal expression (Sunayashiki-Kusuzaki, K. (52) 112)

Rho GTPase; In situ hybridization; Northern blot hybridization; Western blot; Neuron (Olenik, C. (52) 263)

Aging; Mitochondrial DNA; Mitochondrial transcription (Barrientos, A. (52) 284)

Brain-4
Two-hybrid; hnRNP U; POU protein (Malik, K.F. (45) 99)

Brain blood vessel
Urokinase-type plasminogen activator; Plasminogen activator inhibitor-1; uPA mRNA and PAI-1 mRNA in mouse brain; Kainic acid; Limbic structure; Stroke risk; Hypothalamus (Masos, T. (47) 157)

Brain derived neurotrophic factor
Epilepsy; Neurotrophin; Development; Hybridization, in situ; Electroencephalogram; Pilocarpine; Kainic acid; Seizure; Brain (Kornblum, H.I. (44) 219)

Promoter; Sequence; Primary cortico-hippocampal culture; Luciferase; Transient expression (Hayes, V.Y. (45) 189)

Neurotrophin; trkC; Memory; Immediate-early gene (Dragunow, M. (46) 274)

Traumatic brain injury; Lateral fluid percussion; Neurotrophin-3; Hybridization, in situ; Neuronal plasticity (Hicks, R.R. (48) 401)

Alzheimer's disease; Hippocampus; Neurodegeneration; Down's syndrome (Connor, B. (49) 71)

Neurotrophic; Transcription regulation; Calcium; C6 glioma cell (Bishop, J.F. (50) 154)

Oxidative stress; Cell viability; Transcription factor; DNA binding activity; Culture; Neuron; Glia (Iwata, E. (50) 213)

Axotomy; c-jun; Dorsal root ganglion; JunB; JunD; Nerve growth factor; Rhizotomy (Kenney, A.M. (52) 53)

Brain-derived neurotrophic factor (BDNF)
Ethylcholine aziridinium (AF64A); Cholinergic basal forebrain; Neurotrophin-3 (NT-3); Nerve growth factor (NGF); Septohippocampal pathway; Choline acetyltransferase (ChAT) (Hellweg, R. (45) 177)

Stathmin; Mitogen-activated protein kinase (MAPK); 2D-PAGE; Phosphorylation; Nerve growth factor (NGF); Cortical neurons (Cardinaux, J.-R. (51) 220)

Brain development
Reeler mutant mouse; Reelin; Cajal-Retzius cell (De Bergeyck, V. (50) 85)

Brain expression
NMDAR2 subunit; Mouse monoclonal antibody; Immunoblot; Development; Rat subunit; Mouse subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

Brain gene expression
RC3/neurogranin; Hybridization, in situ; T3 receptor; Developmental regulation; Epigenetic factor; Thyroid gland (Guadaño-Ferraz, A. (49) 37)

Brain injury
Heat-shock protein; Astrogliosis; Stroke; Stress gene (Plumier, J.-C.L. (45) 239)

Heat-shock protein; Immediate-early gene; Hypoxia-ischemia; Stress; Hippocampus (Gilby, K.L. (48) 87)

Brain irradiation
Gene expression; c-*fos*; *junB*; Pentobarbital; Glucocorticoid (Hong, J.-H. (48) 223)

Brain specificity
Unc-33-like cDNA; Gene expression; Anti-CV2-autoantibody; Paraneoplastic neurological syndrome (Quach, T.T. (46) 329)

Brainstem
Norepinephrine transporter; Tyrosine hydroxylase; Neuropeptide Y; Dopamine β-hydroxylase; Hybridization, in situ; Medulla oblongata; Rabbit (Pau, K.-Y.F. (48) 367)

Activating transcription factor; Cyclic AMP response element-binding protein; Opioidergic transcriptional mechanisms; Enkephalin; Pain (Hermanson, O. (51) 188)

Bromocriptine
SKF 38393; SCH 23390; Raclopride; Somatostatin receptor; Adenylyl cyclase; Inositol 1,4,5-trisphosphate; Striatum (Izquierdo-Claros, R.M. (47) 99)

Brown adipose tissue
MCH; NEI; Chromosome 12q23; Neuropeptide gene expression; Hypothalamus; Thymus; Differential processing (Viale, A. (46) 243)

β_1 subunit
Sodium channel; $\alpha\beta_1$ complex; Hippocampus; Postnatal development; Neuronal culture; Internalization (Alcaraz, G. (51) 143)

κ-Bungarotoxin
Neuronal; Adenovirus; Recombinant; Acetylcholine; Nicotinic; Oocyte (Gorman, S. (44) 143)

Butyrylcholinesterase
Amyloid β-protein; Amyloid β-protein, precursor; Rat; Alzheimer's disease; Cerebrospinal fluid; Cerebral cortex; Basal nucleus of Meynert; Acetylcholine; Acetylcholinesterase; Acetylcholinesterase inhibitor (Haroutunian, V. (46) 161)

BXD recombinant inbred strain
$GABA_A$ receptor; Alpha1 subunit; Alpha6 subunit; RFLP; C57BL/6J and DBA/2J inbred strain (Garrett, K.M. (45) 133)

trkC
Neurotrophin; Brain-derived neurotrophic factor; Memory; Immediate-early gene (Dragunow, M. (46) 274)

C

CA3
Nociceptin/orphanin FQ receptor; GIRK channel; Nociceptin/orphanin FQ; Opioid receptor; Coupling; *Xenopus* oocyte; Hybridization, in situ (Ikeda, K. (45) 117)

Ca^{2+}
$InsP_4$ receptor; Retina; Hybridization, in situ; Immunocytochemistry; Optic nerve crush; Trauma; Inositol 1,3,4,5-tetrakisphosphate (Kreutz, M.R. (45) 283)

CA1
γ-Aminobutyric acid; Glutamic acid decarboxylase; Hybridization, in situ; Microdialysis; Quisqualate (Falkenberg, T. (48) 413)

C5a anaphylatoxin receptor
Central nervous system; Astrocyte; Rat; cDNA; RT-PCR; Microfluorimetry (Sayah, S. (48) 215)

Ca ATPase
Cerebral ischemia; Photoaffinity; Glutamine synthetase; Striatum; Hippocampus (Sankaran, B. (47) 237)

Ca^{2+}-binding protein
Frequenin; Hybridization, in situ; Immunocytochemistry; Synapse; Astroglia (Olafsson, P. (44) 73)

Ca^{2+}/calmodulin-dependent protein kinase
In situ hybridization histochemistry; Cell death; Nervous system (Sakagami, H. (52) 249)

CAG repeat
Huntington's disease; Huntingtin; Polyglutamine; Microtubule; Tubulin; Glyceraldehyde-3-phosphate dehydrogenase; Calmodulin (Tukamoto, T. (51) 8)

Cajal-Retzius cell
Brain development; Reeler mutant mouse; Reelin (De Bergeyck, V. (50) 85)

Calcitonin gene-related peptide
Islet amyloid polypeptide; Amylin; Sciatic nerve transection; Nerve suture; In situ hybridization; Immunocytochemistry (Mulder, H. (47) 322)

Calcitriol
Nitric oxide; Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Brain; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Calcium
Brain-derived neurotrophic factor; Neurotrophic; Transcription regulation; C6 glioma cell (Bishop, J.F. (50) 154)

Calcium-activated K^+ channel
BK channel; α Subunit; β Subunit; Differential expression; Channel diversity (Chang, C.-P. (45) 33)

Calcium/calmodulin-dependent protein kinase
α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid type glutamate receptor; Phosphorylation; Post-synaptic density; Excitatory amino acid; Synaptic plasticity (Hayashi, Y. (46) 338)

Calcium channel
IP_3 receptor; Gene expression; Olfaction; Alternate splicing; Signal transduction; Sensory epithelium; Secretion (Smutzer, G. (44) 347)

Calcium entry
Seizure-related gene; PTZ-17; Seizure susceptibility; Pentylenetetrazol; 3′-Untranslated region; Post-transcriptional regulation; Mouse strain (Kajiwara, K. (47) 49)

Calcium homeostasis
Hippocampus; Hybridization, in situ; Neuronal cell death; Plasma membrane calcium ATPase (Zacharias, D.A. (45) 173)

Ion transport; Brain; Northern analysis; Digoxin-labeled cDNA; Gene expression; NCX (Yu, L. (50) 285)

Calmodulin
Huntington's disease; Huntingtin; Polyglutamine; CAG repeat; Microtubule; Tubulin; Glyceraldehyde-3-phosphate dehydrogenase (Tukamoto, T. (51) 8)

Calphostin C
Apoptosis; Protein kinase C; Bcl-2; Bcl-X_L; Bax; Trifluoperazine; Staurosporine (Oh, Y.J. (51) 133)

Calretinin gene
Neuron-restrictive promoter; Luciferase transfection; Embryonic mouse brain primary culture (Strauss, K.I. (49) 175)

CaM kinase II
Synapsin; Synaptic vesicle; Protein kinase A; SH3 domain; Actin; Monoclonal antibody; Epitope mapping; Peptide library (Vaccaro, P. (52) 1)

Candidate gene
LSD; Phencyclidine; Schizophrenia; Aromatic L-amino acid decarboxylase; Dopa decarboxylase (Buckland, P.R. (49) 266)

Cannabinoid receptor binding
Cannabinoid receptor mRNA levels; Δ^9-Tetrahydrocannabinol; Autoradiography; Northern blot (Romero, J. (46) 100)

Cannabinoid receptor mRNA levels
Cannabinoid receptor binding; Δ^9-Tetrahydrocannabinol; Autoradiography; Northern blot (Romero, J. (46) 100)

Cannabinoid tolerance
Rat central nervous system; G-protein level; G-protein expression (Rubino, T. (44) 191)

CA1 pyramidal neuron
Ischemia; Na^+-dependent phosphate cotransporter; Cell death (Ni, B. (48) 132)

Carbon monoxide
Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Nitric oxide; Nitric oxide synthase; Heme oxygenase interleukin-1β; Hypothalamus (Jacobs, R.A. (49) 238)

Vasopressin; Heme oxygenase; Biliverdin; Hemin; Hypothalamus (Mancuso, C. (50) 267)

Ca^{2+} regulation
GABA transport; Synaptic plasma membrane (Gonçalves, P.P. (51) 106)

Casein kinase II
PC12 cell; Norepinephrine transporter; Rat; Cloning; Glycosylation; Protein kinase C; Transfection (Brüss, M. (52) 257)

Caspase-1
Interleukin-1β-converting enzyme; ICE; Corticosteroid; Dexamethasone; Lipopolysaccharide; Microglia (Yao, J. (51) 170)

CAT assay
HCNP precursor protein; Nucleotide sequence; Promoter; S1 mapping; Enhancer; Electrophoresis mobility shift assay; Gene expression (Tohdoh, N. (45) 24)

Catecholamine (CA)
Biogenic amine; Serotonin transporter (SERT); Norepinephrine transporter (NET); Dopamine transporter (DAT) (Padbury, J.F. (45) 163)

Catecholamine differentiation
Protein kinase A; Protein kinase C; Tissue culture; Gene activation; Tyrosine hydroxylase; Fibroblast growth factor (Du, X. (50) 1)

Cathepsin D
Metalloendopeptidase; Expression; Amyloid-β-protein; β-Secretase; Alzheimer's disease; Amyloidogenic cleavage (Thompson, A. (48) 206)

Caudate-putamen
α_2-Adrenergic receptor; α_2-Adrenoceptor; Striatum; Antisense (Lu, L. (47) 267)

Preproenkephalin; Parkinson; MPTP monkey; Dopamine agonist; L-DOPA; Hybridization, in situ (Morissette, M. (49) 55)

α_2-Adrenergic receptor; α_2-Adrenoceptor; Striatum; Antisense; Adenosine cyclic 3′,5′-monophosphate (cAMP); Forskolin; Adenylyl cyclase (Lu, L. (52) 228)

C57BL/6J and DBA/2J inbred strain
$GABA_A$ receptor; Alpha1 subunit; Alpha6 subunit; RFLP; BXD recombinant inbred strain (Garrett, K.M. (45) 133)

CD39
Brain; Ecto-apyrase; Ecto-ATPase; Neuron; Astrocyte; Gene (Wang, T.-F. (47) 295)

CDC25Mm
Ras-GRF; Ras; Hippocampal culture (Renata, Z. (48) 140)

C2 domain
Doc2; Exocytosis; mRNA distribution; Central nervous system (Naito, A. (44) 198)

Cell adhesion
F3; Axonal glycoprotein; Immunoglobulin superfamily; Neural-specific promoter; Transmembrane signalling; Nuclear protein (Cangiano, G. (48) 279)

Cell death
Plasma membrane calcium ATPase; Kainic acid; Seizure; Hippocampus; mRNA; Glutamate (Garcia, M.L. (45) 230)

Ischemia; Na^+-dependent phosphate cotransporter; CA1 pyramidal neuron (Ni, B. (48) 132)

Amyloid protein precursor (APP); Rabbit spinal cord; Reversible ischemia; Irreversible ischemia; Stress-induced protein; Neuroprotection (Komori, N. (49) 103)

Ca^{2+}/calmodulin-dependent protein kinase; In situ hybridization histochemistry; Nervous system (Sakagami, H. (52) 249)

Cell differentiation
Neural differentiation; P19 cell line; Embryonal carcinoma; Neurofilament; Gene expression (Paterno, G.D. (49) 247)

Cell-free RNA decay
Astrocyte; HEK293 cell; Neurotrophin; Transfection; mRNA half-life; RNA-binding protein (Tang, B. (46) 118)

Cellular localization
Potassium channel; In situ hybridization; Co-localization; Heteromultimer formation; Antisense transcripts (Verma-Kurvari, S. (46) 54)

Cell viability
Oxidative stress; Brain derived neurotrophic factor; Transcription factor; DNA binding activity; Culture; Neuron; Glia (Iwata, E. (50) 213)

Central nervous system
Doc2; C2 domain; Exocytosis; mRNA distribution (Naito, A. (44) 198)

Astrocyte; C5a anaphylatoxin receptor; Rat; cDNA; RT-PCR; Microfluorimetry (Sayah, S. (48) 215)

Fusion protein; Western blot; Immunohistochemistry; Glycoprotein; Molecular size (Helboe, L. (49) 82)

Type 2 interleukin-1 receptor; Kainic acid; Hybridization, in situ; Rat; Convulsion; Interleukin-1 (Nishiyori, A. (50) 237)

Ceramide
Astrocyte; Mitogen-activated protein kinase; Nerve growth factor; Raf-1; Sphingomyelinase (Galve-Roperh, I. (52) 90)

Cerebellum
Nitric oxide synthase; Stab-lesion; Purkinje cell; Glutamic acid decarboxylase; NADPH-diaphorase histochemistry; Hybridization, in situ (Shigeyoshi, Y. (44) 229)

Purkinje cell; Retinal bipolar neuron; PEP-19; Dendrite; Bax (Vassileva, G. (46) 333)

Fibroblast growth factor; Rat; Brain; Granule cell; Development (Hattori, Y. (47) 262)

Glutamate/aspartate transporter; Mouse; cDNA; In situ hybridization (Maeno-Hikichi, Y. (48) 176)

Glutamate receptor; Kainate; RNA editing; Granule cell; Development (Belcher, S.M. (52) 130)

Cerebral cortex
Northern blot; mRNA; Mitochondria; Oxidative phosphorylation; Energy metabolism; Brain; Alzheimer disease (Chandrasekaran, K. (44) 99)

Neuron; Testis; Gene expression; Promoter; Gene discovery; CpG island; Transmembrane protein (Herbst, R. (44) 309)

Vasopressin receptor; RT-PCR; Neuron; Astroglia; Oligodendroglia; mRNA; Learning and memory (Yamazaki, R.S. (45) 138)

Amyloid β-protein; Amyloid β-protein, precursor; Rat; Alzheimer's disease; Cerebrospinal fluid; Basal nucleus of Meynert; Acetylcholine; Acetylcholinesterase; Acetylcholinesterase inhibitor; Butyrylcholinesterase (Haroutunian, V. (46) 161)

Cerebral ischemia
Blood–brain barrier; Edema; Delayed neuronal death; Gerbil; Hippocampus (Rao, A.M. (44) 134)

Photoaffinity; Glutamine synthetase; Ca ATPase; Striatum; Hippocampus (Sankaran, B. (47) 237)

Rat; Hippocampus; Apoptosis; Ischemia; NF-κB; Neurodegeneration (Clemens, J.A. (48) 187)

Cerebrospinal fluid
Amyloid β-protein; Amyloid β-protein, precursor; Rat; Alzheimer's disease; Cerebral cortex; Basal nucleus of Meynert; Acetylcholine; Acetylcholinesterase; Acetylcholinesterase inhibitor; Butyrylcholinesterase (Haroutunian, V. (46) 161)

Choroid plexus; Kinesin; Secretion; Epithelia; Hybridization, in situ (Rogers, K.R. (51) 161)

c-*fos*
Seizure; Locus coeruleus; Substantia nigra; Ventral tegmentum area; Pentylenetetrazol; Neurotransporter (Szot, P. (44) 46)

Maternal behavior; Sheep; Olfactory memory; Parturition; Vaginocervical stimulation; *zif*/268 (Da Costa, A.P.C. (46) 63)

Orbitofrontal cortex; Somatosensory cortex; Motor cortex; Schizophrenia; In situ hybridization (Palmer, L.C. (46) 127)

Neurotensin; Haloperidol; Immediate-early gene; Striatum; Knockout mouse; Gene expression regulation (Shearman, L.P. (47) 275)

Brain irradiation; Gene expression; *junB*; Pentobarbital; Glucocorticoid (Hong, J.-H. (48) 223)

mRNA expression; Prostaglandin; Cyclooxygenase; Nociception; Mofezolac; NS-398; Nonsteroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

Suprachiasmatic nucleus; Circadian rhythm; Gene expression; Immediate-early gene; Melatonin; Light (Kumar, V. (52) 242)

c-*fos* expression
Ethanol; Muscarinic acetylcholine receptor; Protein kinase C; Neuroblastoma SH-SY5Y cell (Ding, W.-Q. (46) 77)

C-*fos* gene autoregulation
C-*fos* gene expression; Cortical lesion; Down-regulation; Serum response element; Desensitization (Ivkovic, S. (52) 62)

C-*fos* gene expression
Cortical lesion; Down-regulation; Serum response element; Desensitization; C-*fos* gene autoregulation (Ivkovic, S. (52) 62)

C6 glioma cell
Menkes ATPase; Copper homeostasis; RT-PCR; PC12 cell (Qian, Y. (48) 60)

Brain-derived neurotrophic factor; Neurotrophic; Transcription regulation; Calcium (Bishop, J.F. (50) 154)

Channel diversity
Calcium-activated K^+ channel; BK channel; α Subunit; β Subunit; Differential expression (Chang, C.-P. (45) 33)

Charged amino acid
Neurotensin; Receptor; Binding; Mutagenesis (Botto, J.-M. (46) 311)

Chemokine
Cytokine-induced neutrophil chemoattractant; Hyperosmotic challenge; Supraoptic nucleus; Stress (Koike, K. (52) 326)

Chemotactic receptor
Complement; Traumatic brain injury; Neuron (Stahel, P.F. (50) 205)

Chick
RNA editing; Hippocampus; Glutamate receptor; Development; Single-cell PCR (Lowe, D.L. (48) 37)

Chicken
Pinopsin; Immunocytochemistry; Circadian clock; Chicken red; Pineal gland (Okano, T. (50) 190)

Chicken red
Pinopsin; Immunocytochemistry; Circadian clock; Pineal gland; Chicken (Okano, T. (50) 190)

Chinchilla
Excitatory amino acid; Hybridization, in situ; Immunohistochemistry; Vestibular nuclei (Popper, P. (44) 21)

***p*-Chloroamphetamine**
Fluoxetine; Somatostatin receptor; Adenylyl cyclase; Rat; Frontoparietal cortex (Muñoz-Acedo, G. (47) 117)

CHO cell
NMDA receptor channel; $\epsilon 1$ subunit; $\zeta 1$ subunit; Inducible expression; Drug screening system; Intracellular Ca^{2+} elevation; LDH activity (Uchino, S. (44) 1)

CHO-K1 cell
Corticotropin-releasing factor receptor; CRFR1 antibodies; HEK 293 cell; Histidine tag; *N*-Glycosylation; CRF binding; Cyclic AMP (Sydow, S. (52) 182)

Cholesterol
Rabbit; Retinal ganglion cell; Vitreous; Alzheimer's disease; Triglyceride (Shanmugaratnam, J. (50) 113)

Choline acetyltransferase
Human brain; cDNA cloning; Alternative splicing; Initiation codon; Translation efficiency (Misawa, H. (44) 323)

Choline acetyltransferase (ChAT)
Ethylcholine aziridinium (AF64A); Brain-derived neurotrophic factor (BDNF); Cholinergic basal forebrain; Neurotrophin-3 (NT-3); Nerve growth factor (NGF); Septohippocampal pathway (Hellweg, R. (45) 177)

Cholinergic
Ginsenoside; Neurotrophin; Basal forebrain; Hippocampus; Hybridization, in situ (Salim, K.N. (47) 177)

Galanin; Acetylcholine; GALR1; Amygdala; Bed nucleus of the stria terminalis (Miller, M.A. (52) 121)

Cholinergic basal forebrain
Ethylcholine aziridinium (AF64A); Brain-derived neurotrophic factor (BDNF); Neurotrophin-3 (NT-3); Nerve growth factor (NGF); Septohippocampal pathway; Choline acetyltransferase (ChAT) (Hellweg, R. (45) 177)

Cholinergic stimulation
Lithium; Bipolar disorder; Transcription factor; AP-1; NF-κB (Jope, R.S. (50) 171)

Choroid plexus
Arginine vasopressin; Immunohistochemistry; Hybridization histochemistry, in situ; Rat (Chodobski, A. (48) 67)

Kinesin; Secretion; Cerebrospinal fluid; Epithelia; Hybridization, in situ (Rogers, K.R. (51) 161)

Chromatin
Neurofilament; Transcription, in vitro; NF-1; SP1; Tissue-specific gene expression (Schwartz, M.L. (48) 305)

Chromogranin A
Synthesis regulation; Chromogranin B; Secretogranin II; Enkephalin; Neuropeptide Y; Kainic acid; Epilepsy (Tsunashima, K. (51) 42)

Chromogranin B
Synthesis regulation; Chromogranin A; Secretogranin II; Enkephalin; Neuropeptide Y; Kainic acid; Epilepsy (Tsunashima, K. (51) 42)

Chromosome 12q23
MCH; NEI; Neuropeptide gene expression; Hypothalamus; Thymus; Brown adipose tissue; Differential processing (Viale, A. (46) 243)

Ciliary neurotrophic factor (CNTF)
Neuroblastoma; MMP-2; TIMP-2 (Negro, A. (48) 30)

Circadian clock
Suprachiasmatic nucleus; cAMP response element binding protein; DNA binding; NMDAR1/ζ1; c-AMP-responsive element; Electro-mobility shift assay (Kako, K. (44) 39)

Rat hypothalamus; Reverse transcriptase-polymerase chain reaction; β-Actin; Cyclic AMP (Neu, J.M. (49) 303)

Pinopsin; Immunocytochemistry; Chicken red; Pineal gland; Chicken (Okano, T. (50) 190)

Circadian rhythm
Suprachiasmatic nucleus; Immediate-early gene; *nur77*; *zif268* (Lin, J.T. (46) 303)

Suprachiasmatic nucleus; Dopamine; Cocaine; Fetus; Transgenic (Bender, M. (49) 271)

Suprachiasmatic nucleus; *c-fos*; Gene expression; Immediate-early gene; Melatonin; Light (Kumar, V. (52) 242)

Homer mRNA; Immediate-early gene; In situ hybridization; Suprachiasmatic nucleus (Park, H.T. (52) 318)

Cisplatin neurotoxicity
Auditory neuron; Reactive oxygen species; Glutathione (Gabaizadeh, R. (50) 71)

c-jun
Axotomy; Brain-derived neurotrophic factor; Dorsal root ganglion; JunB; JunD; Nerve growth factor; Rhizotomy (Kenney, A.M. (52) 53)

Clathrin assembly protein
Synaptogenesis; Growth cone; RT–PCR; Synaptophysin; GAP-43 (Ishihara-Sugano, M. (52) 290)

Cloning
Neuropeptide; Gene regulation; Estrogen (Corness, J.D. (47) 11)

PC12 cell; Norepinephrine transporter; Rat; Glycosylation; Protein kinase C; Casein kinase II; Transfection (Brüss, M. (52) 257)

Clozapine
Haloperidol; Amperozide; Raclopride; Antidepressant drug; Serotonin; Substance P; Somatostatin (Marcus, M.M. (45) 275)

Schizophrenia; Serotonin receptor; Antipsychotic drug; mRNA; Haloperidol; Sulperide (Buckland, P.R. (48) 45)

Glutamate; Haloperidol; Schizophrenia (Riva, M.A. (50) 136)

pCO8
Cochlea cDNA library; Systematic sequencing; RT-PCR; Hybridization, in situ; Novel gene; drk1 (Soto-Prior, A. (47) 1)

Cocaine
Preprodynorphin; Preproenkephalin; κ Opioid receptor; mRNA; Rat; Brain (Spangler, R. (44) 139)

Neurotensin; mRNA; Nucleus accumbens; Shell; Striatum; Hybridization, in situ; Rat (Betancur, C. (44) 334)

Receptor; Dopamine; Reverse transcription; Polymerase chain reaction; Ribonuclease protection assay; Human brain; Excited delirium (Segal, D.M. (45) 335)

Ventral tegmental area; Substantia nigra; Dorsal raphe; Locus coeruleus; Transport; Hybridization, in situ (Burchett, S.A. (49) 95)

Suprachiasmatic nucleus; Circadian rhythm; Dopamine; Fetus; Transgenic (Bender, M. (49) 271)

Multiplex differential display; Striatum; Zinc-finger protein; Gene regulation (Ennulat, D.J. (49) 299)

Serotonin; Tropane; Preprodynorphin; Preproenkephalin; Fluoxetine; Striatum; Nucleus accumbens (Daunais, J.B. (50) 293)

Cochlea
Dopamine; Dopamine receptors; Neurotransmission; Quantitative competitive PCR (Karadaghy, A.A. (44) 151)

Adenylyl cyclase type I; RT-PCR; Inner hair cell; Immunohistochemistry (Drescher, M.J. (45) 325)

Cochlea cDNA library
Systematic sequencing; RT-PCR; Hybridization, in situ; Novel gene; pCO8; drk1 (Soto-Prior, A. (47) 1)

Co-existence
PACAP; Mesencephalic trigeminal nucleus; Hybridization, in situ; Immunohistochemistry; Up-regulation; Proprioceptive neuron; Peripheral axotomy (Oemar Larsen, J. (46) 109)

Coexistence
Preprotachykinin A; Substance P; Somatostatin; Suprachiasmatic nucleus; Hybridization, in situ (Shigeyoshi, Y. (48) 159)

Collapsin
Semaphorin; Axon guidance; Innervation; Somite; Myotome; Dorsal root ganglia (Kikuchi, K. (51) 229)

Co-localization
Potassium channel; In situ hybridization; Cellular localization; Heteromultimer formation; Antisense transcripts (Verma-Kurvari, S. (46) 54)

Competitive PCR
Myelin-associated glycoprotein; L-MAG; S-MAG; Immunohistochemistry (Miescher, G.C. (52) 299)

Competitive RT-PCR
Glucocorticoid; Serotonin; Melatonin; Tryptophan hydroxylase; Thyroid C cell; Parafollicular cell (Clark, M.S. (48) 346)

Fibroblast growth factor-2; Reinnervation; Lung; Peripheral nervous system; Schwann cell (Shimada, J. (49) 295)

Complement
Chemotactic receptor; Traumatic brain injury; Neuron (Stahel, P.F. (50) 205)

Convulsion
Type 2 interleukin-1 receptor; Kainic acid; Hybridization, in situ; Rat; Central nervous system; Interleukin-1 (Nishiyori, A. (50) 237)

Copper homeostasis
Menkes ATPase; RT-PCR; C6 glioma cell; PC12 cell (Qian, Y. (48) 60)

Cortical lesion
C-*fos* gene expression; Down-regulation; Serum response element; Desensitization; C-*fos* gene autoregulation (Ivkovic, S. (52) 62)

Cortical neurons
Brain-derived neurotrophic factor (BDNF); Stathmin; Mitogen-activated protein kinase (MAPK); 2D-PAGE; Phosphorylation; Nerve growth factor (NGF) (Cardinaux, J.-R. (51) 220)

Corticosteroid
Caspase-1; Interleukin-1β-converting enzyme; ICE; Dexamethasone; Lipopolysaccharide; Microglia (Yao, J. (51) 170)

Corticosterone
Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Serotonin 1A receptor; Mouse; 8-OH-DPAT; Adrenalectomy (Meijer, O.C. (46) 290)

Corticotropin-releasing factor (CRF) receptor
Alcohol; Hypothalamus; Rat (Lee, S. (52) 78)

Corticotropin-releasing factor receptor
CRFR1 antibodies; HEK 293 cell; CHO-K1 cell; Histidine tag; *N*-Glycosylation; CRF binding; Cyclic AMP (Sydow, S. (52) 182)

Corticotropin-releasing hormone
Receptor; Paraventricular nucleus; Lipopolysaccharide; Glucocorticoid (Makino, S. (47) 170)

Aging process; Dehydroepiandrosterone; Paraventricular nucleus; Hybridization, in situ; Gene expression; Rat (Givalois, L. (48) 107)

Coupling
Nociceptin/orphanin FQ receptor; GIRK channel; Nociceptin/orphanin FQ; Opioid receptor; CA3; *Xenopus* oocyte; Hybridization, in situ (Ikeda, K. (45) 117)

COUP-TF
Neuroblastoma cell; DNA binding protein; ARP-1; Retinoid X receptor; Enkephalin (Chan, R.M. (45) 50)

CpG island
Neuron; Testis; Cerebral cortex; Gene expression; Promoter; Gene discovery; Transmembrane protein (Herbst, R. (44) 309)

CRE
PC12; Tyrosine hydroxylase; Protein kinase A; Adenosine receptor; Transcriptional regulation (Chae, H.-D. (44) 31)

Creutzfeldt–Jakob disease
Prion; Scrapie; Neurodegenerative; Genetic; Mutant; Heterozygous; Metabolism (Lehmann, S. (52) 139)

CRF binding
Corticotropin-releasing factor receptor; CRFR1 antibodies; HEK 293 cell; CHO-K1 cell; Histidine tag; *N*-Glycosylation; Cyclic AMP (Sydow, S. (52) 182)

CRFR1 antibodies
Corticotropin-releasing factor receptor; HEK 293 cell; CHO-K1 cell; Histidine tag; *N*-Glycosylation; CRF binding; Cyclic AMP (Sydow, S. (52) 182)

Cultures
Oxidative stress; Brain derived neurotrophic factor; Cell viability; Transcription factor; DNA binding activity; Neuron; Glia (Iwata, E. (50) 213)

iNOS; Glia; Ibuprofen; Neurodegenerative disorder (Stratman, N.C. (50) 107)

Cultured astrocyte and neuron
β-Amyloid precursor protein; Antibody purification; Western and dot-blot analysis; Immunocytochemistry; APP localisation in brain cell; Alzheimer's disease (Rohan de Silva, H.A. (47) 147)

Cyclic adenosine 3′:5′-monophosphate
Olfaction; Olfactory receptor; Signal transduction; GTP-binding protein; Functional expression; Melanophore; Molecular sequence data (McClintock, T.S. (48) 270)

Cyclic AMP
Opioid; Cystic fibrosis transmembrane conductance regulator; Cysistic fibrosis; G protein; Oocyte; *Xenopus*; Adenylyl cyclase (Wotta, D.R. (44) 55)

Opioid receptor; δ-Opioid receptor; GM1 ganglioside; Opioid excitatory effect; Adenylyl cyclase; GM1 modulation of opioid receptors (Wu, G. (44) 341)

Circadian clock; Rat hypothalamus; Reverse transcriptase-polymerase chain reaction; β-Actin (Neu, J.M. (49) 303)

Corticotropin-releasing factor receptor; CRFR1 antibodies; HEK 293 cell; CHO-K1 cell; Histidine tag; *N*-Glycosylation; CRF binding (Sydow, S. (52) 182)

Cyclic AMP response element
Genomic structure; Human VMAT2; 16 Exon; Promoter analysis; Green fluorescent protein (Xu, W. (45) 41)

Dopamine β-hydroxylase; Phorbol 12-myristate 13-acetate; Protein kinase C; SK-N-BE(2)C cell (Kim, J.-S. (51) 154)

Cyclic AMP response element-binding protein
Activating transcription factor; Brainstem; Opioidergic transcriptional mechanisms; Enkephalin; Pain (Hermanson, O. (51) 188)

Cyclic nucleotide-gated channel
Splice variant; Pineal gland; Glutamic acid-rich protein; Photoreceptor; Brain (Sautter, A. (48) 171)

Cyclic rhythm
Retina; Recoverin; Photoreceptor (Wiechmann, A.F. (45) 321)

Cycloheximide
Kainic acid; Proenkephalin; Prodynorphin; Proto-oncogene; Hippocampus (Won, J.-S. (47) 303)

Cyclooxygenase
c-*fos*; mRNA expression; Prostaglandin; Nociception; Mofezolac; NS-398; Non-steroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

Cyclooxygenase-2
Hypoxic-ischemia; Neuroprotection; Programmed cell death; Stroke; Microglia (Walton, M. (50) 165)

Cysistic fibrosis
Opioid; Cystic fibrosis transmembrane conductance regulator; Cyclic AMP; G protein; Oocyte; *Xenopus*; Adenylyl cyclase (Wotta, D.R. (44) 55)

Cystic fibrosis transmembrane conductance regulator
Opioid; Cysistic fibrosis; Cyclic AMP; G protein; Oocyte; *Xenopus*; Adenylyl cyclase (Wotta, D.R. (44) 55)

Cytochrome oxidase (COX)
Heat shock protein (HSP); Ubiquitin (UB); Superoxide dismutase (SOD); Anoxia; *Drosophila*; Slot blot; mRNA (Ma, E. (46) 325)

Cytochrome P450
Steroidogenic factor-1; SF-1; Ad4BP; Aromatase; Brain; Rat (Roselli, C.E. (44) 66)

Cytokine
Cytokine receptor; IL-6; gp130; JAK; Pathway; Trigeminal ganglion (Mizuno, M. (44) 163)

Nitric oxide; Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Inflammation (Garcion, E. (45) 255)

Retroviral vector; Transplantation; *Drosophila* choline acetyltransferase; Dexamethasone (Schinstine, M. (47) 195)

Interleukin-1β; Microglia; β-Adrenoceptor; β_2-Subtype; Rat (Maruta, E. (49) 291)

Cytokine-induced neutrophil chemoattractant
Chemokine; Hyperosmotic challenge; Supraoptic nucleus; Stress (Koike, K. (52) 326)

Cytokine receptor
Cytokine; IL-6; gp130; JAK; Pathway; Trigeminal ganglion (Mizuno, M. (44) 163)

Cytoskeleton
Neurofilament; Protein phosphatase; Protein kinase; Spinal cord; Axon (Strack, S. (49) 15)

D

D_2 dopamine receptor
Enkephalin; Dynorphin; mRNA; Epilepsy; Striatum; Hybridization histochemistry, in situ (De Bartolomeis, A. (46) 321)

D4 dopaminergic receptor
Antipeptide antibody; Benzamide binding; Immunocytochemistry; Rat brain (Defagot, M.C. (45) 1)

Dehydroepiandrosterone
Corticotropin-releasing hormone; Aging process; Paraventricular nucleus; Hybridization, in situ; Gene expression; Rat (Givalois, L. (48) 107)

Delayed neuronal death
Cerebral ischemia; Blood–brain barrier; Edema; Gerbil; Hippocampus (Rao, A.M. (44) 134)

Demyelination
Tellurium; Macrophage; NGF receptor; Peripheral neuropathy (Toews, A.D. (49) 113)

Dendrite
p24; Membrane protein; Neuron; Intracellular organelle (Kadota, Y. (46) 265)

Cerebellum; Purkinje cell; Retinal bipolar neuron; PEP-19; Bax (Vassileva, G. (46) 333)

Tyrosine hydroxylase; mRNA; Locus coeruleus; Ontogeny; Immunoautoradiography; Topology (Bezin, L. (50) 23)

Deprenyl
MDL72974; Neurorescue; Tyrosine hydroxylase; Monoamine oxidase; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Thiffault, C. (44) 238)

L-Deprenyl
Dopamine; Norepinephrine; Monoamine oxidase inhibitor; Respiratory chain; Mechanism; Enzyme regulation; Superoxide dismutase (Thiffault, C. (49) 127)

Desensitization
C-*fos* gene expression; Cortical lesion; Down-regulation; Serum response element; C-*fos* gene autoregulation (Ivkovic, S. (52) 62)

Developing nervous system
LIM motif; Non-receptor serine/threonine kinase; Hybridization histochemistry, in situ; Differential gene expression (Mori, T. (45) 247)

Development
Hybridization, in situ; Northern blot hybridization (Olenik, C. (44) 83)

Epilepsy; Neurotrophin; Hybridization, in situ; Electroencephalogram; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Ion channel; Hybridization, in situ; Transcription (Felts, P.A. (45) 71)

5-HT_{1A} serotonin receptor; cDNA sequence; mRNA expression; Brain; Retina; *Xenopus* (Marracci, S. (47) 67)

Fibroblast growth factor; Rat; Brain; Cerebellum; Granule cell (Hattori, Y. (47) 262)

RNA editing; Hippocampus; Glutamate receptor; Chick; Single-cell PCR (Lowe, D.L. (48) 37)

Nicotinic acetylcholine receptor; α3-Subunit; Ventral cochlear nucleus; Trigeminal nucleus; Facial nucleus (Morley, B.J. (48) 407)

c-Fos; Heat shock protein; Seizure; Status epilepticus (Motte, J.E. (50) 79)

NMDAR2 subunit; Mouse monoclonal antibody; Immunoblot; Brain expression; Rat subunit; Mouse subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

Polysialyltransferase; mRNA; Hybridization, in situ; PSA-NCAM; Rat; Brain (Wood, G.K. (51) 69)

Enkephalin gene; Regulation; Microdissection; Protein–DNA interaction (Dobi, A. (52) 98)

Glutamate receptor; Kainate; RNA editing; Cerebellum; Granule cell (Belcher, S.M. (52) 130)

Developmental regulation
RC3/neurogranin; Brain gene expression; Hybridization, in situ; T3 receptor; Epigenetic factor; Thyroid gland (Guadaño-Ferraz, A. (49) 37)

Development of cerebellum
Protein tyrosine phosphatase; Protein tyrosine phosphatase ϵ; PC12D cell; Neuronal differentiation; Neural function; In situ (Mukouyama, Y. (50) 230)

Dexamethasone
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Phenylethanolamine *N*-methyltransferase (PNMT); Adrenergic expression; Transcriptional control; Sodium butyrate; Synergistic activation (Ebert, S.N. (47) 24)

Retroviral vector; Transplantation; *Drosophila* choline acetyltransferase; Cytokine (Schinstine, M. (47) 195)

Caspase-1; Interleukin-1β-converting enzyme; ICE; Corticosteroid; Lipopolysaccharide; Microglia (Yao, J. (51) 170)

DFP
Receptor, muscarinic; Phenserine; In vivo (Haroutunian, V. (46) 161)

Diabetes
Dynorphin; Opioid; Solution hybridization; Hunger (Berman, Y. (46) 25)

Diabetic neuropathy
trkA; Sensory neuron; Neurotrophin; NGF receptor (Delcroix, J.-D. (51) 82)

Diethylpyrocarbonate
N-methyl-D-aspartate; Ion channel; *Xenopus* oocyte; Voltage-clamp (Gray, A.T. (52) 157)

Differential expression
Calcium-activated K^+ channel; BK channel; α Subunit; β Subunit; Channel diversity (Chang, C.-P. (45) 33)

Differential gene expression
LIM motif; Non-receptor serine/threonine kinase; Hybridization histochemistry, in situ; Developing nervous system (Mori, T. (45) 247)

Differential processing
MCH; NEI; Chromosome 12q23; Neuropeptide gene expression; Hypothalamus; Thymus; Brown adipose tissue (Viale, A. (46) 243)

Differentiation
Protein kinase C; Low molecular weight GTP-binding protein; RhoA; Glioma; Rat (Yoshimura, S.-i. (45) 90)

Digoxigenin
Arcuate nucleus; Hypothalamus; ISHH; Opioid; Parity; POMC; Pregnancy (Mann, P.E. (46) 9)

Digoxin-labeled cDNA
Calcium homeostasis; Ion transport; Brain; Northern analysis; Gene expression; NCX (Yu, L. (50) 285)

cDNA
Glutamate/aspartate transporter; Cerebellum; Mouse; In situ hybridization (Maeno-Hikichi, Y. (48) 176)

Central nervous system; Astrocyte; C5a anaphylatoxin receptor; Rat; RT-PCR; Microfluorimetry (Sayah, S. (48) 215)

Vesicular monoamine transporter (VMAT2); Gene; Promoter; Amphetamine; *N*-Methyl-1,2,3,6-tetrahydropyridine (MPTP) (Takahashi, N. (49) 7)

DNA binding
Circadian clock; Suprachiasmatic nucleus; cAMP response element binding protein; NMDAR1/ζ1; c-AMP-responsive element; Electro-mobility shift assay (Kako, K. (44) 39)

DNA binding activity
Oxidative stress; Brain derived neurotrophic factor; Cell viability; Transcription factor; Culture; Neuron; Glia (Iwata, E. (50) 213)

DNA binding protein
Neuroblastoma cell; ARP-1; COUP-TF; Retinoid X receptor; Enkephalin (Chan, R.M. (45) 50)

Basement membrane; Transcription factor (Kedar, V. (47) 87)

cDNA cloning
Choline acetyltransferase; Human brain; Alternative splicing; Initiation codon; Translation efficiency (Misawa, H. (44) 323)

DNA fragmentation
Etoposide; PC12 cell; Apoptosis; Programmed cell death; Nerve growth factor (NGF) (Saura, J. (48) 382)

DNA methylation
Tyrosine hydroxylase; Bisulfite sequencing; cAMP response element binding protein; DNA–protein interaction; Gene silencing; Neuronal differentiation; Transcriptional regulation (Okuse, K. (46) 197)

DNA polymorphism
Tyrosine hydroxylase; Dopamine; Animal model; Rat strain; Outbreding/inbreding (Murru, S. (45) 345)

DNA–protein interaction
Transcription; Aging; Neurodegenerative disease; Parkinson's; Huntington's; Motor control; Striatum (Chernak, J.M. (44) 113)

Tyrosine hydroxylase; DNA methylation; Bisulfite sequencing; cAMP response element binding protein; Gene silencing; Neuronal differentiation; Transcriptional regulation (Okuse, K. (46) 197)

cDNA sequence
5-HT_{1A} serotonin receptor; mRNA expression; Development; Brain; Retina; *Xenopus* (Marracci, S. (47) 67)

Doc2
C2 domain; Exocytosis; mRNA distribution; Central nervous system (Naito, A. (44) 198)

L-DOPA
Preproenkephalin; Parkinson; MPTP monkey; Dopamine agonist; Caudate-putamen; Hybridization, in situ (Morissette, M. (49) 55)

Dopa decarboxylase
LSD; Phencyclidine; Schizophrenia; Aromatic L-amino acid decarboxylase; Candidate gene (Buckland, P.R. (49) 266)

Dopamine
Molecular cloning; Human; Transfection; Melanin; Aging (Yamada, M. (44) 12)

Cochlea; Dopamine receptors; Neurotransmission; Quantitative competitive PCR (Karadaghy, A.A. (44) 151)

Receptor; Reverse transcription; Polymerase chain reaction; Ribonuclease protection assay; Cocaine; Human brain; Excited delirium (Segal, D.M. (45) 335)

Tyrosine hydroxylase; Animal model; Rat strain; Outbreding/inbreding; DNA polymorphism (Murru, S. (45) 345)

Dopamine receptor; G-protein; Inward rectifier; Kir3; Oocyte; Potassium channel (Nelson, C.S. (46) 185)

L-DOPA treatment; Neuropeptide; mRNA expression; Neostriatum (Salin, P. (47) 311)

Glutamic acid decarboxylase; Glutamate decarboxylase (GAD); γ-Aminobutyric acid (GABA); Striato-nigral; D1 receptor; mRNA; Hybridization histochemistry, in situ (Laprade, N. (48) 333)

Norepinephrine; Monoamine oxidase inhibitor; Respiratory chain; Mechanism; Enzyme regulation; Superoxide dismutase; L-Deprenyl (Thiffault, C. (49) 127)

Suprachiasmatic nucleus; Circadian rhythm; Cocaine; Fetus; Transgenic (Bender, M. (49) 271)

In situ hybridization histochemistry; Tyrosine hydroxylase mRNA; Noradrenaline; Substantia nigra; Ventral tegmental area; Locus coeruleus; Methamphetamine (Shishido, T. (52) 146)

Dopamine agonist
Intracerebral grafting; Embryonic ventral mesencephalon; Animal model; Parkinson's disease (Cenci, M.A. (48) 149)

Preproenkephalin; Parkinson; MPTP monkey; L-DOPA; Caudate-putamen; Hybridization, in situ (Morissette, M. (49) 55)

6-Hydroxydopamine; Priming; Supersensitivity; AP-1; FosB; JunD; cFos (Vallone, D. (52) 307)

Dopamine β-hydroxylase
Norepinephrine transporter; Tyrosine hydroxylase; Neuropeptide Y; Hybridization, in situ; Medulla oblongata; Brainstem; Rabbit (Pau, K.-Y.F. (48) 367)

Cyclic AMP response element; Phorbol 12-myristate 13-acetate; Protein kinase C; SK-N-BE(2)C cell (Kim, J.-S. (51) 154)

Dopamine receptors
Cochlea; Dopamine; Neurotransmission; Quantitative competitive PCR (Karadaghy, A.A. (44) 151)

Dopamine; G-protein; Inward rectifier; Kir3; Oocyte; Potassium channel (Nelson, C.S. (46) 185)

Ethanol; Behavioral dependence; mRNA quantification (Eravci, M. (50) 221)

Dopaminergic
Glutathione peroxidase; PC12; ROS; MPTP; MA (Hom, D.G. (46) 154)

Dopamine transporter
Catecholamine (CA); Biogenic amine; Serotonin transporter (SERT); Norepinephrine transporter (NET) (Padbury, J.F. (45) 163)

Ovariectomy; Estradiol; Striatum; Nucleus accumbens; Substantia nigra; Ventral tegmental area; In situ hybridization (Bossé, R. (46) 343)

Vesicular monoamine transporter; Amphetamine; Sensitization; Hybridization, in situ; Ventral tegmental area; Substantia nigra; Rat (Lu, W. (49) 137)

L-DOPA treatment
Dopamine; Neuropeptide; mRNA expression; Neostriatum (Salin, P. (47) 311)

Dorsal raphe
Ventral tegmental area; Substantia nigra; Locus coeruleus; Cocaine; Transport; Hybridization, in situ (Burchett, S.A. (49) 95)

Dorsal root ganglia
Semaphorin; Collapsin; Axon guidance; Innervation; Somite; Myotome (Kikuchi, K. (51) 229)

Dorsal root ganglion
Stress protein; Axotomy; Heat-shock protein; Protein synthesis; Electrophoresis (Tedeschi, B. (45) 199)

Axotomy; Brain-derived neurotrophic factor; c-jun; JunB; JunD; Nerve growth factor; Rhizotomy (Kenney, A.M. (52) 53)

Nerve injury; Neuropathic pain; RT-PCR; *SCN10A*; α-SNS; Voltage-gated sodium channel; Hyperalgesia (Oaklander, A.L. (52) 162)

Double-labeling
Supraoptic nucleus; Hypothalamus; Glutamate; mRNA; NMDA; NR1; NR2; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

Down-regulation
Opioid receptor; AP-1; Electrophoretic mobility-shift assay; Transcriptional regulation; Up-regulation (Tencheva, Z.S. (48) 156)

C-*fos* gene expression; Cortical lesion; Serum response element; Desensitization; C-*fos* gene autoregulation (Ivkovic, S. (52) 62)

Down's syndrome
Alzheimer's disease; Apoptosis; Bcl-2; Bax; Bcl-x (Sawa, A. (48) 53)

Brain-derived neurotrophic factor; Alzheimer's disease; Hippocampus; Neurodegeneration (Connor, B. (49) 71)

D_1-receptor
Glutamic acid decarboxylase; Glutamate decarboxylase (GAD); γ-Aminobutyric acid (GABA); Striato-nigral; Dopamine; mRNA; Hybridization histochemistry, in situ (Laprade, N. (48) 333)

D_2-receptor; Proenkephalin; Glutamic acid decarboxylase (GAD); Basal ganglion; Entopeduncular nucleus; Striatum; Antipsychotics (Coirini, H. (49) 197)

D_2-receptor
Striatal development; Human fetal brain; Hybridization, in situ; Receptor autoradiography (Brana, C. (48) 389)

D_1-receptor; Proenkephalin; Glutamic acid decarboxylase (GAD); Basal ganglion; Entopeduncular nucleus; Striatum; Antipsychotics (Coirini, H. (49) 197)

Drinking
Nucleus of the solitary tract; Area postrema; Pancreatic polypeptide; Gut–brain axis; Feeding (Larsen, P.J. (48) 1)

drk1
Cochlea cDNA library; Systematic sequencing; RT-PCR; Hybridization, in situ; Novel gene; pCO8 (Soto-Prior, A. (47) 1)

Drosophila
Heat shock protein (HSP); Ubiquitin (UB); Superoxide dismutase (SOD); Cytochrome oxidase (COX); Anoxia; Slot blot; mRNA (Ma, E. (46) 325)

***Drosophila* choline acetyltransferase**
Retroviral vector; Transplantation; Dexamethasone; Cytokine (Schinstine, M. (47) 195)

Drug screening system
NMDA receptor channel; $\epsilon 1$ subunit; $\zeta 1$ subunit; Inducible expression; CHO cell; Intracellular Ca^{2+} elevation; LDH activity (Uchino, S. (44) 1)

Dynorphin
Opioid; Solution hybridization; Hunger; Diabetes (Berman, Y. (46) 25)

Enkephalin; D_2 dopamine receptor; mRNA; Epilepsy; Striatum; Hybridization histochemistry, in situ (De Bartolomeis, A. (46) 321)

E

EAAT2
Human glutamate transporter; GLT-1; Motor system; Motor neurone disease (Milton, I.D. (52) 17)

Early growth response (EGR)
Glutamate receptor; NMDAR-1; NGFI-A; Transcription; Pentylenetetrazol (Jensen, P.J. (44) 157)

Ecto-apyrase
Brain; Ecto-ATPase; CD39; Neuron; Astrocyte; Gene (Wang, T.-F. (47) 295)

Ecto-ATPase
Brain; Ecto-apyrase; CD39; Neuron; Astrocyte; Gene (Wang, T.-F. (47) 295)

Edema
Cerebral ischemia; Blood–brain barrier; Delayed neuronal death; Gerbil; Hippocampus (Rao, A.M. (44) 134)

Egg-laying hormone
Leech; Neuropeptide; Phylogeny (Salzet, M. (49) 211)

EHK-1
Receptor tyrosine kinase; Neuron; Glioma; Immunohistochemistry (Miescher, G.C. (46) 17)

Electroconvulsive seizure
R-nurr1; Northern analysis; Hybridization, in situ; Amygdala kindling (Xing, G. (47) 251)

Electroencephalogram
Epilepsy; Neurotrophin; Development; Hybridization, in situ; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Electrogenesis
Ion channel; Hybridization, in situ; mRNA; Optic nerve; Retina; RT-PCR (Fjell, J. (50) 197)

Electro-mobility shift assay
Circadian clock; Suprachiasmatic nucleus; cAMP response element binding protein; DNA binding; NMDAR1/ζ1; c-AMP-responsive element (Kako, K. (44) 39)

Electrophoresis
Stress protein; Axotomy; Dorsal root ganglion; Heat-shock protein; Protein synthesis (Tedeschi, B. (45) 199)

Electrophoresis mobility shift assay
HCNP precursor protein; Nucleotide sequence; Promoter; S1 mapping; Enhancer; CAT assay; Gene expression (Tohdoh, N. (45) 24)

Electrophoretic mobility-shift assay
Opioid receptor; AP-1; Transcriptional regulation; Down-regulation; Up-regulation (Tencheva, Z.S. (48) 156)

Electrophoretic mobility shift assay
Neuronal culture; Gene regulation (Korhonen, P. (52) 330)

ELISA
Glucocorticoid; Growth factor; Hippocampus; Astrocyte; mRNA; RNase protection (Niu, H. (51) 97)

Embryonal carcinoma
Neural differentiation; P19 cell line; Neurofilament; Gene expression; Cell differentiation (Paterno, G.D. (49) 247)

Embryonic mouse brain primary culture
Calretinin gene; Neuron-restrictive promoter; Luciferase transfection (Strauss, K.I. (49) 175)

Embryonic ventral mesencephalon
Intracerebral grafting; Dopamine agonist; Animal model; Parkinson's disease (Cenci, M.A. (48) 149)

End-capped phosphorothioate
Antisense oligodeoxynucleotide; Nuclease resistance; Gene suppression (Hebb, M.O. (47) 223)

Endopeptidase-24.11
Somatostatin; Octreotide; Receptor; Proliferation; Meningeal cell; Fibroblast (Feindt, J. (44) 293)

Endotoxin
Metallothionein-I; Metallothionein-II; Metallothionein-III; Growth inhibitory factor; IL-6; Brain; Liver (Hernández, J. (48) 125)

Energy metabolism
Northern blot; mRNA; Mitochondria; Oxidative phosphorylation; Cerebral cortex; Brain; Alzheimer disease (Chandrasekaran, K. (44) 99)

Engineered cell
Intracerebral transplantation; Gene therapy; Muscle cell (Lisovoski, F. (44) 125)

Enhancer
HCNP precursor protein; Nucleotide sequence; Promoter; S1 mapping; CAT assay; Electrophoresis mobility shift assay; Gene expression (Tohdoh, N. (45) 24)

Enkephalin
Neuroblastoma cell; DNA binding protein; ARP-1; COUP-TF; Retinoid X receptor (Chan, R.M. (45) 50)

Dynorphin; D_2 dopamine receptor; mRNA; Epilepsy; Striatum; Hybridization histochemistry, in situ (De Bartolomeis, A. (46) 321)

mRNA; Hybridization, in situ; Estrogen; Sexual behavior; Lordosis; Hypothalamus; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

Synthesis regulation; Chromogranin A; Chromogranin B; Secretogranin II; Neuropeptide Y; Kainic acid; Epilepsy (Tsunashima, K. (51) 42)

Activating transcription factor; Cyclic AMP response element-binding protein; Brainstem; Opioidergic transcriptional mechanisms; Pain (Hermanson, O. (51) 188)

Enkephalin gene
Regulation; Development; Microdissection; Protein–DNA interaction (Dobi, A. (52) 98)

Entopeduncular nucleus
D_1-receptor; D_2-receptor; Proenkephalin; Glutamic acid decarboxylase (GAD); Basal ganglion; Striatum; Antipsychotics (Coirini, H. (49) 197)

Enzyme induction
Nitric oxide synthase; Growth factor; PC12 cell; Polyclonal antiserum (Macduff Sheehy, A. (52) 71)

Enzyme regulation
Dopamine; Norepinephrine; Monoamine oxidase inhibitor; Respiratory chain; Mechanism; Superoxide dismutase; L-Deprenyl (Thiffault, C. (49) 127)

Eph family receptor
Hybridization, in situ; Neurogenesis; Limbic system; Topographic projection; Axonal guidance (Zhang, J.-H. (47) 202)

Epigenetic factor
RC3/neurogranin; Brain gene expression; Hybridization, in situ; T3 receptor; Developmental regulation; Thyroid gland (Guadaño-Ferraz, A. (49) 37)

Epilepsy
Neurotrophin; Development; Hybridization, in situ; Electroencephalogram; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Enkephalin; Dynorphin; D_2 dopamine receptor; mRNA; Striatum; Hybridization histochemistry, in situ (De Bartolomeis, A. (46) 321)

In situ hybridization; Plasticity; Gene expression; Voltage-dependent calcium channel; mRNA; Hippocampus; Kindling (Hendriksen, H. (50) 257)

Synthesis regulation; Chromogranin A; Chromogranin B; Secretogranin II; Enkephalin; Neuropeptide Y; Kainic acid (Tsunashima, K. (51) 42)

Transcriptonal regulation; Gene promoter; Kindling; γ-Aminobutyric acid; Transgenic mouse (Penschuck, S. (51) 212)

Epithelia
Choroid plexus; Kinesin; Secretion; Cerebrospinal fluid; Hybridization, in situ (Rogers, K.R. (51) 161)

Epitope mapping
Synapsin; Synaptic vesicle; Protein kinase A; CaM kinase II; SH3 domain; Actin; Monoclonal antibody; Peptide library (Vaccaro, P. (52) 1)

Estradiol
Serotonin; Transporter; Luteinizing hormone; Rat; Affective disorder (McQueen, J.K. (45) 13)

Pro-opiomelanocortin (POMC); Regulation; Hypothalamic cell culture; Gene expression; Messenger ribonucleic acid (mRNA); Estrogen (Gao, Y. (45) 340)

Dopamine transporter; Ovariectomy; Striatum; Nucleus accumbens; Substantia nigra; Ventral tegmental area; In situ hybridization (Bossé, R. (46) 343)

Galanin; Tyrosine hydroxylase; Locus ceruleus (Tseng, J.Y. (50) 100)

Estrogen
Pro-opiomelanocortin (POMC); Regulation; Hypothalamic cell culture; Estradiol; Gene expression; Messenger ribonucleic acid (mRNA) (Gao, Y. (45) 340)

Neuropeptide; Gene regulation; Cloning (Corness, J.D. (47) 11)

mRNA; Hybridization, in situ; Enkephalin; Sexual behavior; Lordosis; Hypothalamus; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

Proenkephalin; mRNA; Ventromedial nucleus; Aging; Fetal alcohol exposure (Li, Y. (47) 215)

Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Opioid; μ-Opioid receptor; Progesterone (Petersen, S.L. (52) 32)

Estrogen receptor
Androgen receptor; Gonadotrophin-releasing hormone; Luteinizing hormone; Luteinizing-releasing hormone; Male rat; mRNA; Preoptic area (Spratt, D.P. (47) 125)

Estrous cycle
Preprotachykinin; NK-1; Gene expression; RNase protection assay; Hypothalamus; Rat (Gautreau, A. (49) 157)

ε1 subunit
NMDA receptor channel; ζ1 subunit; Inducible expression; CHO cell; Drug screening system; Intracellular Ca^{2+} elevation; LDH activity (Uchino, S. (44) 1)

Ethanol
Propofol; Glycine; *Xenopus* oocyte; Long-sleep mouse; Genetics; Neurosteroid (Mascia, M.P. (45) 169)

Muscarinic acetylcholine receptor; c-*fos* expression; Protein kinase C; Neuroblastoma SH-SY5Y cell (Ding, W.-Q. (46) 77)

δ-Opioid receptor mRNA; Forskolin; cAMP; Protein kinase A; Solution hybridization (Jenab, S. (47) 44)

Behavioral dependence; Dopamine receptor; mRNA quantification (Eravci, M. (50) 221)

Ethylcholine aziridinium (AF64A)
Brain-derived neurotrophic factor (BDNF); Cholinergic basal forebrain; Neurotrophin-3 (NT-3); Nerve growth factor (NGF); Septohippocampal pathway; Choline acetyltransferase (ChAT) (Hellweg, R. (45) 177)

Etoposide
PC12 cell; Apoptosis; DNA fragmentation; Programmed cell death; Nerve growth factor (NGF) (Saura, J. (48) 382)

Excitatory amino acid
Hybridization, in situ; Immunohistochemistry; Vestibular nuclei; Chinchilla (Popper, P. (44) 21)

Heat-shock protein; Toxicity; Vacuole; *N*-Methyl-D-aspartate (NMDA); AMPA (Lan, J.Q. (46) 297)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid type glutamate receptor; Phosphorylation; Post-synaptic density; Calcium/calmodulin-dependent protein kinase; Synaptic plasticity (Hayashi, Y. (46) 338)

Excitatory amino-acid receptor
Avian; *Gallus domesticus*; RT-PCR; Splice variant; Alternative splicing (Ravindranathan, A. (50) 143)

Excited delirium
Receptor; Dopamine; Reverse transcription; Polymerase chain reaction; Ribonuclease protection assay; Cocaine; Human brain (Segal, D.M. (45) 335)

Excitotoxicity
Apoptosis; Serum deprivation; Phosphorylated tau; Primary neuronal culture (Lesort, M. (45) 127)

Basal nucleus of Meynert; Flip; Flop; Globus pallidus; Glutamate receptor; Nucleus accumbens; Striatum (Tomiyama, M. (46) 281)

Hybridization, in situ; Interneuron; Projections neuron; Huntington's disease (Kerner, J.A. (48) 259)

Glutamate transport; Striatum; Huntington's disease; Hybridization, in situ; MK-801 (Liévens, J.-C. (50) 181)

AMPA receptor; Focal ischemia; Transgenic mouse; Animal model; GluR2-flip (Le, D. (52) 235)

Exocytosis
Doc2; C2 domain; mRNA distribution; Central nervous system (Naito, A. (44) 198)

16 Exon
Genomic structure; Human VMAT2; Promoter analysis; Green fluorescent protein; Cyclic AMP response element (Xu, W. (45) 41)

Experimental epilepsy
Sodium channel; mRNA; Kainic acid; Reverse transcriptase-polymerase chain reaction (RT-PCR); In situ hybridization (ISH); Hippocampus; Rat, adult (Gastaldi, M. (44) 179)

Expression
Metalloendopeptidase; Cathepsin D; Amyloid-β-protein; β-Secretase; Alzheimer's disease; Amyloidogenic cleavage (Thompson, A. (48) 206)

Extensor digitorum longus
Muscle activation history; Phrenic; Soleus; Tensor fascia latae motor pool (Blanco, C.E. (44) 253)

Eye
Taurine transporter; Na^+/*myo*-inositol cotransporter; Hybridization, in situ; Hyperosmolality (Morimura, H. (44) 245)

F

F3
Axonal glycoprotein; Cell adhesion; Immunoglobulin superfamily; Neural-specific promoter; Transmembrane signalling; Nuclear protein (Cangiano, G. (48) 279)

Facial nucleus
Nicotinic acetylcholine receptor; α3-Subunit; Development; Ventral cochlear nucleus; Trigeminal nucleus (Morley, B.J. (48) 407)

FAD mutation
Alzheimer's disease; Amyloid precursor protein; βA4; Transgenic mouse (Czech, C. (47) 108)

Fatty acid translocase
Fatty acid transport protein; Brain; Ontogeny; In situ hybridization (Utsunomiya, A. (46) 217)

Fatty acid transport protein
Fatty acid translocase; Brain; Ontogeny; In situ hybridization (Utsunomiya, A. (46) 217)

Feeding
Nucleus of the solitary tract; Area postrema; Pancreatic polypeptide; Gut–brain axis; Drinking (Larsen, P.J. (48) 1)

Fetal alcohol exposure
Proenkephalin; mRNA; Ventromedial nucleus; Estrogen; Aging (Li, Y. (47) 215)

Fetus
Suprachiasmatic nucleus; Circadian rhythm; Dopamine; Cocaine; Transgenic (Bender, M. (49) 271)

bFGF
Focal ischemia; Rat; Hybridization, in situ; Immunohistochemistry (Lin, T.N. (49) 255)

Fibroblast
Somatostatin; Octreotide; Receptor; Proliferation; Endopeptidase-24.11; Meningeal cell (Feindt, J. (44) 293)

Fibroblast growth factor
Rat; Brain; Cerebellum; Granule cell; Development (Hattori, Y. (47) 262)

Tyrosine hydroxylase; PC12 cells; Transcription; AP-1; Nerve growth factor (Osaka, H. (49) 222)

Protein kinase A; Protein kinase C; Tissue culture; Gene activation; Tyrosine hydroxylase; Catecholamine differentiation (Du, X. (50) 1)

Fibroblast growth factor-2
Competitive RT-PCR; Reinnervation; Lung; Peripheral nervous system; Schwann cell (Shimada, J. (49) 295)

Fibroblast growth factor (FGF)
mRNA; Neuron; Brain; Rat; Gene expression (Hattori, Y. (47) 139)

Fimbria-fornix
Inducible transcription factor; Mamillo-thalamic tract; Medial forebrain bundle; Neuronal nitric oxide synthase (Brecht, S. (48) 7)

Flip
Basal nucleus of Meynert; Excitotoxicity; Flop; Globus pallidus; Glutamate receptor; Nucleus accumbens; Striatum (Tomiyama, M. (46) 281)

Flop
Basal nucleus of Meynert; Excitotoxicity; Flip; Globus pallidus; Glutamate receptor; Nucleus accumbens; Striatum (Tomiyama, M. (46) 281)

Fluoxetine
p-Chloroamphetamine; Somatostatin receptor; Adenylyl cyclase; Rat; Frontoparietal cortex (Muñoz-Acedo, G. (47) 117)

Serotonin; Tropane; Preprodynorphin; Preproenkephalin; Cocaine; Striatum; Nucleus accumbens (Daunais, J.B. (50) 293)

Focal epilepsy
Glucose metabolism; FOS; JUN; Immunocytochemistry (Gass, P. (46) 177)

Focal ischemia
bFGF; Rat; Hybridization, in situ; Immunohistochemistry (Lin, T.N. (49) 255)

AMPA receptor; Transgenic mouse; Excitotoxicity; Animal model; GluR2-flip (Le, D. (52) 235)

Forskolin
δ-Opioid receptor mRNA; Ethanol; cAMP; Protein kinase A; Solution hybridization (Jenab, S. (47) 44)

α_2-Adrenergic receptor; α_2-Adrenoceptor; Caudate-putamen; Striatum; Antisense; Adenosine cyclic 3′,5′-monophosphate (cAMP); Adenylyl cyclase (Lu, L. (52) 228)

FOS
Focal epilepsy; Glucose metabolism; JUN; Immunocytochemistry (Gass, P. (46) 177)

Global cerebral ischemia; Reperfusion injury; Oxidative stress; Redox regulation; APE; APEX; Jun; Neuronal cell death (Gillardon, F. (52) 194)

c-Fos
Heat shock protein; Seizure; Status epilepticus; Development (Motte, J.E. (50) 79)

6-Hydroxydopamine; Priming; Supersensitivity; Dopamine agonist; AP-1; FosB; JunD (Vallone, D. (52) 307)

FosB
6-Hydroxydopamine; Priming; Supersensitivity; Dopamine agonist; AP-1; JunD; cFos (Vallone, D. (52) 307)

Free radical
Nitric oxide; Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Inflammation; Cytokine (Garcion, E. (45) 255)

Kainic acid; Transgenic mice; Superoxide dismutase; Hippocampus; Nick translation, in situ (Hirata, H. (48) 145)

Frequenin
Ca^{2+}-binding protein; Hybridization, in situ; Immunocytochemistry; Synapse; Astroglia (Olafsson, P. (44) 73)

Freund's complete adjuvant
Amylin; Inflammation; Monarthritis; Hybridization, in situ; Gene expression (Mulder, H. (50) 127)

Frog subunit
NMDAR2 subunit; Mouse monoclonal antibody; Immunoblot; Brain expression; Development; Rat subunit; Mouse subunit; Rabbit subunit; Human subunit (Laurie, D.J. (51) 23)

Frontoparietal cortex
Fluoxetine; *p*-Chloroamphetamine; Somatostatin receptor; Adenylyl cyclase; Rat (Muñoz-Acedo, G. (47) 117)

Functional expression
Olfaction; Olfactory receptor; Signal transduction; GTP-binding protein; Cyclic adenosine 3′:5′-monophosphate; Melanophore; Molecular sequence data (McClintock, T.S. (48) 270)

Adenovirus; Gene transfer; AMPA receptor channel; GluR1; GluR2; PC12 cell (Sudo, M. (50) 91)

Fusion protein
Western blot; Immunohistochemistry; Glycoprotein; Molecular size; Central nervous system (Helboe, L. (49) 82)

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GABAergic neuron
Hybridization histochemistry, in situ; Non-GABAergic neuron (Yasumi, M. (44) 205)

GABAergic transmission
Basal ganglion; Parkinson's disease; Rat (Caruncho, H.J. (48) 243)

$GABA_A$ receptor
Benzodiazepine receptor; mRNA; Aging; Antibody; Rat brain (Gutiérrez, A. (45) 59)

Alpha1 subunit; Alpha6 subunit; RFLP; C57BL/6J and DBA/2J inbred strain; BXD recombinant inbred strain (Garrett, K.M. (45) 133)

Neuron-specific gene expression; Transgenic mouse; Primary culture; Transfection (Lüscher, B. (51) 197)

Neurosteroid; THDOC; Pregnenolone sulfate; Phosphorylation; PKC; Phorbol esters; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

GABA transport
Synaptic plasma membrane; Ca^{2+} regulation (Gonçalves, P.P. (51) 106)

GABA transporter
Olfactory bulb; Hybridization, in situ; Gene expression (Nishimura, M. (45) 268)

GAD65
Glutamic acid decarboxylase; GAD67; Human fetal brain; RT-PCR (Chan, S.O. (46) 318)

GAD67
Glutamic acid decarboxylase; GAD65; Human fetal brain; RT-PCR (Chan, S.O. (46) 318)

Galanin
Tyrosine hydroxylase; Locus ceruleus; Estradiol (Tseng, J.Y. (50) 100)

Gene expression; Pituitary; Hypothalamus; Thyroid hormone (Hooi, S.C. (51) 15)

Receptor; G-protein; Phosphoinositide hydrolysis; Pituitary; Hybridization, in situ (Fathi, Z. (51) 49)

Cholinergic; Acetylcholine; GALR1; Amygdala; Bed nucleus of the stria terminalis (Miller, M.A. (52) 121)

β-Gal expression
Arrestin; Phosducin; Pinealocyte; Brain; Transgenic mouse (Sunayashiki-Kusuzaki, K. (52) 112)

Gallus domesticus
Excitatory amino-acid receptor; Avian; RT-PCR; Splice variant; Alternative splicing (Ravindranathan, A. (50) 143)

GALR1
Galanin; Cholinergic; Acetylcholine; Amygdala; Bed nucleus of the stria terminalis (Miller, M.A. (52) 121)

GAP-43
Clathrin assembly protein; Synaptogenesis; Growth cone; RT–PCR; Synaptophysin (Ishihara-Sugano, M. (52) 290)

Gastrointestinal tract
Opioid receptors; μ- and κ-Opioid receptors; RNase protection assay; Immunohistochemistry (Fickel, J. (46) 1)

Gene
Brain; Ecto-apyrase; Ecto-ATPase; CD39; Neuron; Astrocyte (Wang, T.-F. (47) 295)

Vesicular monoamine transporter (VMAT2); cDNA; Promoter; Amphetamine; *N*-Methyl-1,2,3,6-tetrahydropyridine (MPTP) (Takahashi, N. (49) 7)

Gene activation
Protein kinase A; Protein kinase C; Tissue culture; Tyrosine hydroxylase; Catecholamine differentiation; Fibroblast growth factor (Du, X. (50) 1)

Gene discovery
Neuron; Testis; Cerebral cortex; Gene expression; Promoter; CpG island; Transmembrane protein (Herbst, R. (44) 309)

Gene duplication
Xenopus laevis; Intermediate filament; Neurofilament; Polyploidy (Gervasi, C. (48) 229)

Gene expression
Neuron; Testis; Cerebral cortex; Promoter; Gene discovery; CpG island; Transmembrane protein (Herbst, R. (44) 309)

IP_3 receptor; Olfaction; Alternate splicing; Signal transduction; Sensory epithelium; Secretion; Calcium channel (Smutzer, G. (44) 347)

HCNP precursor protein; Nucleotide sequence; Promoter; S1 mapping; Enhancer; CAT assay; Electrophoresis mobility shift assay (Tohdoh, N. (45) 24)

μ-Opioid receptor mRNA (MOR); μ-Opioid receptor binding; Ribonuclease protection assay; Naltrexone; Morphine (Castelli, M.P. (45) 149)

Tyrosinase; RT-PCR; Substantia nigra; Parkinson's disease; RNA (Xu, Y. (45) 159)

Hippocampus; Serotonin receptor; Glucocorticoid; Metyrapone; Aminoglutethimide (Yau, J.L.W. (45) 182)

Olfactory bulb; GABA transporter; Hybridization, in situ (Nishimura, M. (45) 268)

K*rev*-1/*rap* 1A; *Rap* 1B; H-*ras*; Spinal cord; Noxious stimulation (Urayama, O. (45) 331)

Pro-opiomelanocortin (POMC); Regulation; Hypothalamic cell culture; Estradiol; Messenger ribonucleic acid (mRNA); Estrogen (Gao, Y. (45) 340)

Selective neuronal vulnerability; Lysosomal (Sun, N. (45) 353)

Unc-33-like cDNA; Brain specificity; Anti-CV2-autoantibody; Paraneoplastic neurological syndrome (Quach, T.T. (46) 329)

Fibroblast growth factor (FGF); mRNA; Neuron; Brain; Rat (Hattori, Y. (47) 139)

Corticotropin-releasing hormone; Aging process; Dehydroepiandrosterone; Paraventricular nucleus; Hybridization, in situ; Rat (Givalois, L. (48) 107)

Brain irradiation; c-*fos*; *junB*; Pentobarbital; Glucocorticoid (Hong, J.-H. (48) 223)

Proteoglycan; Glutamate; Neurite growth; Hippocampal neuron (Wang, W. (48) 355)

Preprotachykinin; NK-1; RNase protection assay; Hypothalamus; Estrous cycle; Rat (Gautreau, A. (49) 157)

Neural differentiation; P19 cell line; Embryonal carcinoma; Neurofilament; Cell differentiation (Paterno, G.D. (49) 247)

G-protein-coupled receptor kinase 6 (*GRK6*); RACE-PCR; Rat brain (Fehr, C. (49) 278)

Programmed cell death; ICE-related protease; Hippocampus; Global cerebral ischemia; Kainic acid; Protease activity (Gillardon, F. (50) 16)

Tyrosine hydroxylase; Promoter; Transgene; Transcription (Liu, J. (50) 33)

Amylin; Freund's complete adjuvant; Inflammation; Monarthritis; Hybridization, in situ (Mulder, H. (50) 127)

Epilepsy; In situ hybridization; Plasticity; Voltage-dependent calcium channel; mRNA; Hippocampus; Kindling (Hendriksen, H. (50) 257)

Calcium homeostasis; Ion transport; Brain; Northern analysis; Digoxin-labeled cDNA; NCX (Yu, L. (50) 285)

Galanin; Pituitary; Hypothalamus; Thyroid hormone (Hooi, S.C. (51) 15)

Nicotinic acetylcholine receptor; Glutamate receptor; Retinal ganglion cell; Hybridization, in situ (Hoover, F. (51) 123)

Suprachiasmatic nucleus; Circadian rhythm; c-*fos*; Immediate-early gene; Melatonin; Light (Kumar, V. (52) 242)

Gene expression regulation
c-*fos*; Neurotensin; Haloperidol; Immediate-early gene; Striatum; Knockout mouse (Shearman, L.P. (47) 275)

Gene organization
Serotonin transporter; Mouse; Promoter; Antidepressant; Anxiety; Alcoholism; Affective disorder (Bengel, D. (44) 286)

Gene promoter
Epilepsy; Transcriptonal regulation; Kindling; γ-Aminobutyric acid; Transgenic mouse (Penschuck, S. (51) 212)

Gene regulation
Neuropeptide; Estrogen; Cloning (Corness, J.D. (47) 11)

Benzodiazepine tolerance; Benzodiazepine receptor; Ligand-gated ion-channel; Nuclear run-off assay (Holt, R.A. (48) 164)

Multiplex differential display; Cocaine; Striatum; Zinc-finger protein (Ennulat, D.J. (49) 299)

Neuronal culture; Electrophoretic mobility shift assay (Korhonen, P. (52) 330)

Gene silencing
Tyrosine hydroxylase; DNA methylation; Bisulfite sequencing; cAMP response element binding protein; DNA–protein interaction; Neuronal differentiation; Transcriptional regulation (Okuse, K. (46) 197)

Gene suppression
Antisense oligodeoxynucleotide; End-capped phosphorothioate; Nuclease resistance (Hebb, M.O. (47) 223)

Gene therapy
Intracerebral transplantation; Engineered cell; Muscle cell (Lisovoski, F. (44) 125)

Genetics
Ethanol; Propofol; Glycine; *Xenopus* oocyte; Long-sleep mouse; Neurosteroid (Mascia, M.P. (45) 169)

Prion; Scrapie; Neurodegenerative; Creutzfeldt–Jakob disease; Mutant; Heterozygous; Metabolism (Lehmann, S. (52) 139)

Gene transcription
Melanin-concentrating hormone; Tyrosine hydroxylase; Neurotensin; mRNA stability; Lithium; Glucocorticoids; PC12 cells (Presse, F. (52) 270)

Gene transfer
Adenovirus; Functional expression; AMPA receptor channel; GluR1; GluR2; PC12 cell (Sudo, M. (50) 91)

Nodose sensory neuron; Adenovirus; Green fluorescent protein; Rat (Meyrelles, S.S. (51) 33)

Genomic structure
Human VMAT2; 16 Exon; Promoter analysis; Green fluorescent protein; Cyclic AMP response element (Xu, W. (45) 41)

Gerbil
Cerebral ischemia; Blood–brain barrier; Edema; Delayed neuronal death; Hippocampus (Rao, A.M. (44) 134)

Gerstmann–Sträussler–Scheinker
Prion protein; Amyloid; *PRNP* mutation; Spinal cord (Young, K. (44) 147)

GFAP promoter
Plasmid DNA; LacZ; NSE promoter; HCMV promoter (Hannas-Djebbara, Z. (46) 91)

Ginsenoside
Cholinergic; Neurotrophin; Basal forebrain; Hippocampus; Hybridization, in situ (Salim, K.N. (47) 177)

Girisopam
2,3-Benzodiazepine; Striatal lesion; AMPA; Striato-nigral transection; Autoradiography (Horváth, E.J. (45) 141)

GIRK channel
Nociceptin/orphanin FQ receptor; Nociceptin/orphanin FQ; Opioid receptor; Coupling; CA3; *Xenopus* oocyte; Hybridization, in situ (Ikeda, K. (45) 117)

GLAST
Sodium-dependent transporter; Oocyte; *Xenopus*; Neurolathyrism; *Lathyrus* toxin; β-(Isoxazolin-5-on-4-yl)-L-alanine; β-ODAP (Kusama-Eguchi, K. (52) 166)

Glia
S100; Transcription; Luciferase; Promoter (Castets, F. (46) 208)

iNOS; Cultures; Ibuprofen; Neurodegenerative disorder (Stratman, N.C. (50) 107)

Oxidative stress; Brain derived neurotrophic factor; Cell viability; Transcription factor; DNA binding activity; Culture; Neuron (Iwata, E. (50) 213)

Glial cell
Nitric oxide; Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Patch-clamp; Acute cell isolation; Reverse transcription-polymerase chain reaction (RT-PCR); AMPA receptor; Hippocampus (Seifert, G. (47) 286)

Glial fibrillary acidic protein
Mouse; Astrocyte; Injury; Neuronal activity (Fujiki, M. (44) 301)

Inhibitor of DNA binding; Id; Helix-loop-helix; Astrocyte proliferation; Astrogliosis (Tzeng, S.-F. (46) 136)

Glioma
Differentiation; Protein kinase C; Low molecular weight GTP-binding protein; RhoA; Rat (Yoshimura, S.-i. (45) 90)

EHK-1; Receptor tyrosine kinase; Neuron; Immunohistochemistry (Miescher, G.C. (46) 17)

Global cerebral ischemia
Programmed cell death; ICE-related protease; Hippocampus; Kainic acid; Gene expression; Protease activity (Gillardon, F. (50) 16)

Reperfusion injury; Oxidative stress; Redox regulation; APE; APEX; Jun; Fos; Neuronal cell death (Gillardon, F. (52) 194)

Globus pallidus
Basal nucleus of Meynert; Excitotoxicity; Flip; Flop; Glutamate receptor; Nucleus accumbens; Striatum (Tomiyama, M. (46) 281)

GLT-1
Human glutamate transporter; EAAT2; Motor system; Motor neurone disease (Milton, I.D. (52) 17)

Glucocorticoid
AP-1; NF-κB; IκB; Oxidative stress (Unlap, M.T. (45) 83)

Hippocampus; Serotonin receptor; Gene expression; Metyrapone; Aminoglutethimide (Yau, J.L.W. (45) 182)

Corticotropin-releasing hormone; Receptor; Paraventricular nucleus; Lipopolysaccharide (Makino, S. (47) 170)

Brain irradiation; Gene expression; c-*fos*; *junB*; Pentobarbital (Hong, J.-H. (48) 223)

Serotonin; Melatonin; Tryptophan hydroxylase; Thyroid C cell; Parafollicular cell; Competitive RT-PCR (Clark, M.S. (48) 346)

Growth factor; Hippocampus; Astrocyte; mRNA; RNase protection; ELISA (Niu, H. (51) 97)

Melanin-concentrating hormone; Tyrosine hydroxylase; Neurotensin; mRNA stability; Gene transcription; Lithium; PC12 cells (Presse, F. (52) 270)

Glucocorticoid receptor
Mineralocorticoid receptor; Hippocampus; Serotonin 1A receptor; Mouse; 8-OH-DPAT; Adrenalectomy; Corticosterone (Meijer, O.C. (46) 290)

Glucose metabolism
Focal epilepsy; FOS; JUN; Immunocytochemistry (Gass, P. (46) 177)

GluR1
Adenovirus; Gene transfer; Functional expression; AMPA receptor channel; GluR2; PC12 cell (Sudo, M. (50) 91)

GluR2
Adenovirus; Gene transfer; Functional expression; AMPA receptor channel; GluR1; PC12 cell (Sudo, M. (50) 91)

GluR2-flip
AMPA receptor; Focal ischemia; Transgenic mouse; Excitotoxicity; Animal model (Le, D. (52) 235)

Glutamate
Supraoptic nucleus; Hypothalamus; mRNA; NMDA; NR1; NR2; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

Plasma membrane calcium ATPase; Cell death; Kainic acid; Seizure; Hippocampus; mRNA (Garcia, M.L. (45) 230)

NMDA; Receptor; Antibody; Glycosylation; Hybridization, in situ; mRNA; Rat brain (Ciabarra, A.M. (46) 85)

Hybridization, in situ; Schizophrenia; Antipsychotics; Nucleus accumbens (Healy, D.J. (47) 331)

Proteoglycan; Neurite growth; Gene expression; Hippocampal neuron (Wang, W. (48) 355)

Haloperidol; Clozapine; Schizophrenia (Riva, M.A. (50) 136)

AMPA; Kainate; *N*-Methyl-D-aspartate (NMDA); Motoneuron; Spinal cord; Alternative splicing; RNA (Temkin, R. (52) 38)

Glutamate / aspartate transporter
Cerebellum; Mouse; cDNA; In situ hybridization (Maeno-Hikichi, Y. (48) 176)

Glutamate decarboxylase (GAD)
Glutamic acid decarboxylase; γ-Aminobutyric acid (GABA); Striato-nigral; Dopamine; D1 receptor; mRNA; Hybridization histochemistry, in situ (Laprade, N. (48) 333)

Glutamate receptor
NMDAR-1; NGFI-A; Early growth response (EGR); Transcription; Pentylenetetrazol (Jensen, P.J. (44) 157)

Basal nucleus of Meynert; Excitotoxicity; Flip; Flop; Globus pallidus; Nucleus accumbens; Striatum (Tomiyama, M. (46) 281)

RNA editing; Hippocampus; Development; Chick; Single-cell PCR (Lowe, D.L. (48) 37)

Nicotinic acetylcholine receptor; Retinal ganglion cell; Hybridization, in situ; Gene expression (Hoover, F. (51) 123)

Kainate; RNA editing; Cerebellum; Granule cell; Development (Belcher, S.M. (52) 130)

Glutamate receptor channel
AMPA receptor; α_1-Subunit; Ion channel; Agonist-binding site; Site-directed mutagenesis; Baculovirus; Insect cell (Kawamoto, S. (47) 339)

Glutamate transport
Excitotoxicity; Striatum; Huntington's disease; Hybridization, in situ; MK-801 (Liévens, J.-C. (50) 181)

Glutamic acid decarboxylase
Nitric oxide synthase; Stab-lesion; Cerebellum; Purkinje cell; NADPH-diaphorase histochemistry; Hybridization, in situ (Shigeyoshi, Y. (44) 229)

GAD67; GAD65; Human fetal brain; RT-PCR (Chan, S.O. (46) 318)

Glutamate decarboxylase (GAD); γ-Aminobutyric acid (GABA); Striato-nigral; Dopamine; D1 receptor; mRNA; Hybridization histochemistry, in situ (Laprade, N. (48) 333)

CA1; γ-Aminobutyric acid; Hybridization, in situ; Microdialysis; Quisqualate (Falkenberg, T. (48) 413)

Glutamic acid decarboxylase (GAD)
D_1-receptor; D_2-receptor; Proenkephalin; Basal ganglion; Entopeduncular nucleus; Striatum; Antipsychotics (Coirini, H. (49) 197)

Glutamic acid-rich protein
Cyclic nucleotide-gated channel; Splice variant; Pineal gland; Photoreceptor; Brain (Sautter, A. (48) 171)

Glutamine synthetase
Cerebral ischemia; Photoaffinity; Ca ATPase; Striatum; Hippocampus (Sankaran, B. (47) 237)

Glutathione
Auditory neuron; Cisplatin neurotoxicity; Reactive oxygen species (Gabaizadeh, R. (50) 71)

Glutathione peroxidase
PC12; ROS; MPTP; MA; Dopaminergic (Hom, D.G. (46) 154)

Glyceraldehyde-3-phosphate dehydrogenase
Huntington's disease; Huntingtin; Polyglutamine; CAG repeat; Microtubule; Tubulin; Calmodulin (Tukamoto, T. (51) 8)

Glycine
Ethanol; Propofol; *Xenopus* oocyte; Long-sleep mouse; Genetics; Neurosteroid (Mascia, M.P. (45) 169)

Transport; Amino-acid neurotransmitter; Neuronal culture (Poyatos, I. (49) 63)

Glycine transporter
Release; Sarcosine; NMDA receptor (Sakata, K. (49) 89)

Glycoprotein
Fusion protein; Western blot; Immunohistochemistry; Molecular size; Central nervous system (Helboe, L. (49) 82)

Glycosylation
Glutamate; NMDA; Receptor; Antibody; Hybridization, in situ; mRNA; Rat brain (Ciabarra, A.M. (46) 85)

Protein conformation; Western blotting; Seven transmembrane receptor; Receptor subtype; Immunocytochemistry (Anthony, T.E. (50) 277)

PC12 cell; Norepinephrine transporter; Rat; Cloning; Protein kinase C; Casein kinase II; Transfection (Brüss, M. (52) 257)

***N*-Glycosylation**
ACh receptor; *Xenopus* oocyte; Assembly; Toxin binding site (Gehle, V.M. (45) 219)

Corticotropin-releasing factor receptor; CRFR1 antibodies; HEK 293 cell; CHO-K1 cell; Histidine tag; CRF binding; Cyclic AMP (Sydow, S. (52) 182)

GM1 ganglioside
Opioid receptor; δ-Opioid receptor; Opioid excitatory effect; Adenylyl cyclase; Cyclic AMP; GM1 modulation of opioid receptors (Wu, G. (44) 341)

GM1 modulation of opioid receptors
Opioid receptor; δ-Opioid receptor; GM1 ganglioside; Opioid excitatory effect; Adenylyl cyclase; Cyclic AMP (Wu, G. (44) 341)

cGMP
Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Gonadotrophin-releasing hormone
Androgen receptor; Estrogen receptor; Luteinizing hormone; Luteinizing-releasing hormone; Male rat; mRNA; Preoptic area (Spratt, D.P. (47) 125)

Gonadotropin-releasing hormone
GT1-1 cell; Autocrine regulation; Transcriptional regulation (Cho, S. (50) 51)

Luteinizing hormone-releasing hormone; Opioid; μ-Opioid receptor; Estrogen; Progesterone (Petersen, S.L. (52) 32)

gp130
Cytokine; Cytokine receptor; IL-6; JAK; Pathway; Trigeminal ganglion (Mizuno, M. (44) 163)

G protein
Opioid; Cystic fibrosis transmembrane conductance regulator; Cysistic fibrosis; Cyclic AMP; Oocyte; *Xenopus*; Adenylyl cyclase (Wotta, D.R. (44) 55)

Dopamine; Dopamine receptor; Inward rectifier; Kir3; Oocyte; Potassium channel (Nelson, C.S. (46) 185)

ACh receptor; Lysophosphatidic acid; Protein kinase C; Phosphorylation; Site-directed mutagenesis; Voltage clamp (Nishizaki, T. (50) 121)

Galanin; Receptor; Phosphoinositide hydrolysis; Pituitary; Hybridization, in situ (Fathi, Z. (51) 49)

G-protein-coupled receptor
Opioid receptor; δ-Opioid receptor; κ-Opioid receptor; Polymerase chain reaction; Brain; Immune cells (Gavériaux-Ruff, C. (48) 298)

G-protein expression
Cannabinoid tolerance; Rat central nervous system; G-protein level (Rubino, T. (44) 191)

G-protein level
Cannabinoid tolerance; Rat central nervous system; G-protein expression (Rubino, T. (44) 191)

Granule cell
Fibroblast growth factor; Rat; Brain; Cerebellum; Development (Hattori, Y. (47) 262)

Glutamate receptor; Kainate; RNA editing; Cerebellum; Development (Belcher, S.M. (52) 130)

Green fluorescent protein
Genomic structure; Human VMAT2; 16 Exon; Promoter analysis; Cyclic AMP response element (Xu, W. (45) 41)

Gene transfer; Nodose sensory neuron; Adenovirus; Rat (Meyrelles, S.S. (51) 33)

G-protein-coupled receptor kinase 6 (*GRK6*)
RACE-PCR; Rat brain; Gene expression (Fehr, C. (49) 278)

Growth cone
Clathrin assembly protein; Synaptogenesis; RT–PCR; Synaptophysin; GAP-43 (Ishihara-Sugano, M. (52) 290)

Growth factor
Glucocorticoid; Hippocampus; Astrocyte; mRNA; RNase protection; ELISA (Niu, H. (51) 97)

Nitric oxide synthase; PC12 cell; Enzyme induction; Polyclonal antiserum (Macduff Sheehy, A. (52) 71)

Growth factor potentiation
Amyloid precursor protein; Neurotrophic activity; Nerve growth factor (Wallace, W.C. (52) 201)

Amyloid precursor protein; Neurotrophic activity; Nerve growth factor; Insulin receptor substrate-1; Tyrosine phosphorylation (Wallace, W.C. (52) 213)

Growth hormone secretagogue receptor
mRNA; Hybridization, in situ; RNase protection assay (Guan, X.-M. (48) 23)

Growth inhibitory factor
Metallothionein-I; Metallothionein-II; Metallothionein-III; IL-6; Endotoxin; Brain; Liver (Hernández, J. (48) 125)

GT1-1 cell
Gonadotropin-releasing hormone; Autocrine regulation; Transcriptional regulation (Cho, S. (50) 51)

GTP-binding protein
Olfaction; Olfactory receptor; Signal transduction; Cyclic adenosine 3′:5′-monophosphate; Functional expression; Melanophore; Molecular sequence data (McClintock, T.S. (48) 270)

Guinea-pig
Preproenkephalin mRNA; 3′ untranslated region; Translation (LaForge, K.S. (46) 169)

Gustatory
γ-Aminobutyric acid (GABA); Transporter; Taste bud; Immunocytochemistry; Tongue (Obata, H. (49) 29)

Gut–brain axis
Nucleus of the solitary tract; Area postrema; Pancreatic polypeptide; Drinking; Feeding (Larsen, P.J. (48) 1)

H

Haloperidol
Clozapine; Amperozide; Raclopride; Antidepressant drug; Serotonin; Substance P; Somatostatin (Marcus, M.M. (45) 275)

c-*fos*; Neurotensin; Immediate-early gene; Striatum; Knockout mouse; Gene expression regulation (Shearman, L.P. (47) 275)

Schizophrenia; Serotonin receptor; Antipsychotic drug; mRNA; Clozapine; Sulperide (Buckland, P.R. (48) 45)

Glutamate; Clozapine; Schizophrenia (Riva, M.A. (50) 136)

HCMV promoter
Plasmid DNA; LacZ; GFAP promoter; NSE promoter (Hannas-Djebbara, Z. (46) 91)

HCNP precursor protein
Nucleotide sequence; Promoter; S1 mapping; Enhancer; CAT assay; Electrophoresis mobility shift assay; Gene expression (Tohdoh, N. (45) 24)

Heat-shock protein
Stress protein; Axotomy; Dorsal root ganglion; Protein synthesis; Electrophoresis (Tedeschi, B. (45) 199)

Brain injury; Astrogliosis; Stroke; Stress gene (Plumier, J.-C.L. (45) 239)

Excitatory amino acid; Toxicity; Vacuole; *N*-Methyl-D-aspartate (NMDA); AMPA (Lan, J.Q. (46) 297)

Ubiquitin (UB); Superoxide dismutase (SOD); Cytochrome oxidase (COX); Anoxia; *Drosophila*; Slot blot; mRNA (Ma, E. (46) 325)

Immediate-early gene; Hypoxia-ischemia; Brain injury; Stress; Hippocampus (Gilby, K.L. (48) 87)

c-Fos; Seizure; Status epilepticus; Development (Motte, J.E. (50) 79)

HEK293 cell
Astrocyte; Neurotrophin; Transfection; Cell-free RNA decay; mRNA half-life; RNA-binding protein (Tang, B. (46) 118)

Corticotropin-releasing factor receptor; CRFR1 antibodies; CHO-K1 cell; Histidine tag; *N*-Glycosylation; CRF binding; Cyclic AMP (Sydow, S. (52) 182)

Helix-loop-helix
Inhibitor of DNA binding; Id; Astrocyte proliferation; Astrogliosis; Glial fibrillary acidic protein (Tzeng, S.-F. (46) 136)

Heme oxygenase
Carbon monoxide; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Carbon monoxide; Vasopressin; Biliverdin; Hemin; Hypothalamus (Mancuso, C. (50) 267)

Heme oxygenase interleukin-1β
Nitric oxide; Nitric oxide synthase; Carbon monoxide; Hypothalamus (Jacobs, R.A. (49) 238)

Hemin
Carbon monoxide; Heme oxygenase; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Carbon monoxide; Vasopressin; Heme oxygenase; Biliverdin; Hypothalamus (Mancuso, C. (50) 267)

Hemoglobin
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Heteromultimer formation
Potassium channel; In situ hybridization; Cellular localization; Co-localization; Antisense transcripts (Verma-Kurvari, S. (46) 54)

Heterozygous
Prion; Scrapie; Neurodegenerative; Genetic; Creutzfeldt–Jakob disease; Mutant; Metabolism (Lehmann, S. (52) 139)

Hippocampal culture
CDC25Mm; Ras-GRF; Ras (Renata, Z. (48) 140)

Hippocampal neuron
Proteoglycan; Glutamate; Neurite growth; Gene expression (Wang, W. (48) 355)

Hippocampus
Cerebral ischemia; Blood–brain barrier; Edema; Delayed neuronal death; Gerbil (Rao, A.M. (44) 134)

Adenovirus; Long-term potentiation; Synaptic plasticity (Griesbeck, O. (44) 171)

Sodium channel; mRNA; Experimental epilepsy; Kainic acid; Reverse transcriptase-polymerase chain reaction (RT-PCR); In situ hybridization (ISH); Rat, adult (Gastaldi, M. (44) 179)

Calcium homeostasis; Hybridization, in situ; Neuronal cell death; Plasma membrane calcium ATPase (Zacharias, D.A. (45) 173)

Serotonin receptor; Gene expression; Glucocorticoid; Metyrapone; Aminoglutethimide (Yau, J.L.W. (45) 182)

Plasma membrane calcium ATPase; Cell death; Kainic acid; Seizure; mRNA; Glutamate (Garcia, M.L. (45) 230)

Neuropeptide Y receptor; Hybridization, in situ; Rat; Hypothalamus; Trigeminal ganglion (Gustafson, E.L. (46) 223)

Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 1A receptor; Mouse; 8-OH-DPAT; Adrenalectomy; Corticosterone (Meijer, O.C. (46) 290)

Ginsenoside; Cholinergic; Neurotrophin; Basal forebrain; Hybridization, in situ (Salim, K.N. (47) 177)

Cerebral ischemia; Photoaffinity; Glutamine synthetase; Ca ATPase; Striatum (Sankaran, B. (47) 237)

Patch-clamp; Acute cell isolation; Reverse transcription-polymerase chain reaction (RT-PCR); AMPA receptor; Glial cell (Seifert, G. (47) 286)

Kainic acid; Cycloheximide; Proenkephalin; Prodynorphin; Proto-oncogene (Won, J.-S. (47) 303)

RNA editing; Glutamate receptor; Development; Chick; Single-cell PCR (Lowe, D.L. (48) 37)

Heat-shock protein; Immediate-early gene; Hypoxia-ischemia; Brain injury; Stress (Gilby, K.L. (48) 87)

Kainic acid; Transgenic mice; Superoxide dismutase; Free radical; Nick translation, in situ (Hirata, H. (48) 145)

Cerebral ischemia; Rat; Apoptosis; Ischemia; NF-κB; Neurodegeneration (Clemens, J.A. (48) 187)

Brain-derived neurotrophic factor; Alzheimer's disease; Neurodegeneration; Down's syndrome (Connor, B. (49) 71)

Programmed cell death; ICE-related protease; Global cerebral ischemia; Kainic acid; Gene expression; Protease activity (Gillardon, F. (50) 16)

Epilepsy; In situ hybridization; Plasticity; Gene expression; Voltage-dependent calcium channel; mRNA; Kindling (Hendriksen, H. (50) 257)

Glucocorticoid; Growth factor; Astrocyte; mRNA; RNase protection; ELISA (Niu, H. (51) 97)

Sodium channel; β_1 subunit; $\alpha\beta_1$ complex; Postnatal development; Neuronal culture; Internalization (Alcaraz, G. (51) 143)

Histidine tag
Corticotropin-releasing factor receptor; CRFR1 antibodies; HEK 293 cell; CHO-K1 cell; *N*-Glycosylation; CRF binding; Cyclic AMP (Sydow, S. (52) 182)

[^{3}H]Ketanserin
5-HT_{2A} receptor; Mutation; Tryptamine; [^{125}I]DOI; 5-Methoxytryptamine (Johnson, M.P. (49) 1)

HMG-CR promoter
(Czech, C. (47) 108)

Homer mRNA
Circadian rhythm; Immediate-early gene; In situ hybridization; Suprachiasmatic nucleus (Park, H.T. (52) 318)

H-*ras*
K*rev*-1/*rap* 1A; *Rap* 1B; Gene expression; Spinal cord; Noxious stimulation (Urayama, O. (45) 331)

Hsc70
Hsp70; Stress protein; Hybridization, in situ (Foster, J.A. (45) 207)

Hsp70
Hsc70; Stress protein; Hybridization, in situ (Foster, J.A. (45) 207)

5-HT_{1a} receptor
Oscillatory current response; Phosphatidylinositol; Adenylate cyclase; *Xenopus* oocyte; Plasmid vector (Ni, Y.G. (51) 115)

5-HT_{2A} receptor
Mutation; Tryptamine; [^{3}H]Ketanserin; [^{125}I]DOI; 5-Methoxytryptamine (Johnson, M.P. (49) 1)

5-HT_{1A} serotonin receptor
cDNA sequence; mRNA expression; Development; Brain; Retina; *Xenopus* (Marracci, S. (47) 67)

Human
Molecular cloning; Dopamine; Transfection; Melanin; Aging (Yamada, M. (44) 12)

Human brain
AMPA receptor; Agonal state; Alternative splicing; mRNA; Non-NMDA receptor; Schizophrenia (Eastwood, S.L. (44) 92)

Choline acetyltransferase; cDNA cloning; Alternative splicing; Initiation codon; Translation efficiency (Misawa, H. (44) 323)

Receptor; Dopamine; Reverse transcription; Polymerase chain reaction; Ribonuclease protection assay; Cocaine; Excited delirium (Segal, D.M. (45) 335)

Human choline acetyltransferase
Promoter; Transactivation; NGFI-A; NGFI-C; AP2 dbcAMP (Quirin-Stricker, C. (49) 165)

Human fetal brain
Glutamic acid decarboxylase; GAD67; GAD65; RT-PCR (Chan, S.O. (46) 318)

Striatal development; D2 receptor; Hybridization, in situ; Receptor autoradiography (Brana, C. (48) 389)

Human glutamate transporter
EAAT2; GLT-1; Motor system; Motor neurone disease (Milton, I.D. (52) 17)

Human heart
Ligand-gated channel; ATP receptor; P2X; Human spinal cord (Garcia-Guzman, M. (47) 59)

Human spinal cord
Ligand-gated channel; ATP receptor; P2X; Human heart (Garcia-Guzman, M. (47) 59)

Human subunit
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Human VMAT2
Genomic structure; 16 Exon; Promoter analysis; Green fluorescent protein; Cyclic AMP response element (Xu, W. (45) 41)

Hunger
Dynorphin; Opioid; Solution hybridization; Diabetes (Berman, Y. (46) 25)

Huntington's disease
Transcription; DNA–protein interaction; Aging; Neurodegenerative disease; Parkinson's; Motor control; Striatum (Chernak, J.M. (44) 113)

Hybridization, in situ; Interneuron; Projections neuron; Excitotoxicity (Kerner, J.A. (48) 259)

Glutamate transport; Excitotoxicity; Striatum; Hybridization, in situ; MK-801 (Liévens, J.-C. (50) 181)

Huntington; Polyglutamine; CAG repeat; Microtubule; Tubulin; Glyceraldehyde-3-phosphate dehydrogenase; Calmodulin (Tukamoto, T. (51) 8)

Hybridization histochemistry
mRNA; Acetylcholine; Immunocytochemistry (Sugaya, K. (50) 305)

Hybridization histochemistry, in situ
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LIM motif; Non-receptor serine/threonine kinase; Differential gene expression; Developing nervous system (Mori, T. (45) 247)

Enkephalin; Dynorphin; D_2 dopamine receptor; mRNA; Epilepsy; Striatum (De Bartolomeis, A. (46) 321)

Arginine vasopressin; Choroid plexus; Immunohistochemistry; Rat (Chodobski, A. (48) 67)

Glutamic acid decarboxylase; Glutamate decarboxylase (GAD); γ-Aminobutyric acid (GABA); Striato-nigral; Dopamine; D1 receptor; mRNA (Laprade, N. (48) 333)

Hybridization, in situ
Excitatory amino acid; Immunohistochemistry; Vestibular nuclei; Chinchilla (Popper, P. (44) 21)

Frequenin; Ca^{2+}-binding protein; Immunocytochemistry; Synapse; Astroglia (Olafsson, P. (44) 73)

Northern blot hybridization; Development (Olenik, C. (44) 83)

Epilepsy; Neurotrophin; Development; Electroencephalogram; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Nitric oxide synthase; Stab-lesion; Cerebellum; Purkinje cell; Glutamic acid decarboxylase; NADPH-diaphorase histochemistry (Shigeyoshi, Y. (44) 229)

Taurine transporter; Na^+/*myo*-inositol cotransporter; Hyperosmolality; Eye (Morimura, H. (44) 245)

Supraoptic nucleus; Hypothalamus; Glutamate; mRNA; NMDA; NR1; NR2; Double-labeling; Immunocytochemistry (Al-Ghoul, W.M. (44) 262)

Cocaine; Neurotensin; mRNA; Nucleus accumbens; Shell; Striatum; Rat (Betancur, C. (44) 334)

Development; Ion channel; Transcription (Felts, P.A. (45) 71)

Nociceptin/orphanin FQ receptor; GIRK channel; Nociceptin/orphanin FQ; Opioid receptor; Coupling; CA3; *Xenopus* oocyte (Ikeda, K. (45) 117)

Calcium homeostasis; Hippocampus; Neuronal cell death; Plasma membrane calcium ATPase (Zacharias, D.A. (45) 173)

Hsp70; Hsc70; Stress protein (Foster, J.A. (45) 207)

Olfactory bulb; GABA transporter; Gene expression (Nishimura, M. (45) 268)

$InsP_4$ receptor; Retina; Immunocytochemistry; Optic nerve crush; Trauma; Inositol 1,3,4,5-tetrakisphosphate; Ca^{2+} (Kreutz, M.R. (45) 283)

Phosphatidylinositol transfer protein; Brain; Ontogeny (Utsunomiya, A. (45) 349)

Glutamate; NMDA; Receptor; Antibody; Glycosylation; mRNA; Rat brain (Ciabarra, A.M. (46) 85)

PACAP; Mesencephalic trigeminal nucleus; Immunohistochemistry; Up-regulation; Proprioceptive neuron; Peripheral axotomy; Co-existence (Oemar Larsen, J. (46) 109)

Neuropeptide Y receptor; Rat; Hippocampus; Hypothalamus; Trigeminal ganglion (Gustafson, E.L. (46) 223)

Phosphatidylinositol transfer proteins α and β (PI-TPα and PI-TPβ); mRNA expression; Rat brain; Signal transduction; Secretion (Imai, H. (46) 256)

Cochlea cDNA library; Systematic sequencing; RT-PCR; Novel gene; pCO8; drk1 (Soto-Prior, A. (47) 1)

mRNA; Estrogen; Enkephalin; Sexual behavior; Lordosis; Hypothalamus; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

Ginsenoside; Cholinergic; Neurotrophin; Basal forebrain; Hippocampus (Salim, K.N. (47) 177)

Eph family receptor; Neurogenesis; Limbic system; Topographic projection; Axonal guidance (Zhang, J.-H. (47) 202)

R-nurr1; Northern analysis; Electroconvulsive seizure; Amygdala kindling (Xing, G. (47) 251)

Glutamate; Schizophrenia; Antipsychotics; Nucleus accumbens (Healy, D.J. (47) 331)

Growth hormone secretagogue receptor; mRNA; RNase protection assay (Guan, X.-M. (48) 23)

Corticotropin-releasing hormone; Aging process; Dehydroepiandrosterone; Paraventricular nucleus; Gene expression; Rat (Givalois, L. (48) 107)

Preprotachykinin A; Substance P; Somatostatin; Suprachiasmatic nucleus; Coexistence (Shigeyoshi, Y. (48) 159)

Interneuron; Projections neuron; Huntington's disease; Excitotoxicity (Kerner, J.A. (48) 259)

Nitric oxide synthase; Spontaneous hypertension; Hypothalamus; Paraventricular nucleus; Sympathetic nervous system; Polymerase chain reaction (Plochocka-Zulinska, D. (48) 291)

Norepinephrine transporter; Tyrosine hydroxylase; Neuropeptide Y; Dopamine β-hydroxylase; Medulla oblongata; Brainstem; Rabbit (Pau, K.-Y.F. (48) 367)

Striatal development; D2 receptor; Human fetal brain; Receptor autoradiography (Brana, C. (48) 389)

Traumatic brain injury; Lateral fluid percussion; Brain-derived neurotrophic factor; Neurotrophin-3; Neuronal plasticity (Hicks, R.R. (48) 401)

CA1; γ-Aminobutyric acid; Glutamic acid decarboxylase; Microdialysis; Quisqualate (Falkenberg, T. (48) 413)

RC3/neurogranin; Brain gene expression; T3 receptor; Developmental regulation; Epigenetic factor; Thyroid gland (Guadaño-Ferraz, A. (49) 37)

Preproenkephalin; Parkinson; MPTP monkey; Dopamine agonist; L-DOPA; Caudate-putamen (Morissette, M. (49) 55)

Ventral tegmental area; Substantia nigra; Dorsal raphe; Locus coeruleus; Cocaine; Transport (Burchett, S.A. (49) 95)

Dopamine transporter; Vesicular monoamine transporter; Amphetamine; Sensitization; Ventral tegmental area; Substantia nigra; Rat (Lu, W. (49) 137)

Focal ischemia; bFGF; Rat; Immunohistochemistry (Lin, T.N. (49) 255)

Neurotrophin; TrkA; TrkB; TrkC; VGF (Snyder, S.E. (49) 307)

Somatostatin; Basal ganglia; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Medial medullary lamina (Eve, D.J. (50) 59)

Amylin; Freund's complete adjuvant; Inflammation; Monarthritis; Gene expression (Mulder, H. (50) 127)

Glutamate transport; Excitotoxicity; Striatum; Huntington's disease; MK-801 (Liévens, J.-C. (50) 181)

Electrogenesis; Ion channel; mRNA; Optic nerve; Retina; RT-PCR (Fjell, J. (50) 197)

Type 2 interleukin-1 receptor; Kainic acid; Rat; Central nervous system; Convulsion; Interleukin-1 (Nishiyori, A. (50) 237)

Galanin; Receptor; G-protein; Phosphoinositide hydrolysis; Pituitary (Fathi, Z. (51) 49)

Polysialyltransferase; mRNA; PSA-NCAM; Rat; Brain; Development (Wood, G.K. (51) 69)

Nicotinic acetylcholine receptor; Glutamate receptor; Retinal ganglion cell; Gene expression (Hoover, F. (51) 123)

Choroid plexus; Kinesin; Secretion; Cerebrospinal fluid; Epithelia (Rogers, K.R. (51) 161)

6-Hydroxydopamine
Priming; Supersensitivity; Dopamine agonist; AP-1; FosB; JunD; cFos (Vallone, D. (52) 307)

Hyperalgesia
Dorsal root ganglion; Nerve injury; Neuropathic pain; RT-PCR; *SCN10A*; α-SNS; Voltage-gated sodium channel (Oaklander, A.L. (52) 162)

Hyperosmolality
Taurine transporter; Na^+/*myo*-inositol cotransporter; Hybridization, in situ; Eye (Morimura, H. (44) 245)

Hyperosmotic challenge
Cytokine-induced neutrophil chemoattractant; Chemokine; Supraoptic nucleus; Stress (Koike, K. (52) 326)

Hypertonicity
Osmolyte; Vasogenic edema; Blood–brain barrier (Yamashita, T. (46) 236)

Hypothalamic cell culture
Pro-opiomelanocortin (POMC); Regulation; Estradiol; Gene expression; Messenger ribonucleic acid (mRNA); Estrogen (Gao, Y. (45) 340)

Hypothalamus
Supraoptic nucleus; Glutamate; mRNA; NMDA; NR1; NR2; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

Arcuate nucleus; Digoxigenin; ISHH; Opioid; Parity; POMC; Pregnancy (Mann, P.E. (46) 9)

Neuropeptide Y receptor; Hybridization, in situ; Rat; Hippocampus; Trigeminal ganglion (Gustafson, E.L. (46) 223)

MCH; NEI; Chromosome 12q23; Neuropeptide gene expression; Thymus; Brown adipose tissue; Differential processing (Viale, A. (46) 243)

Acetylcholine receptor; Nicotinic receptor; Immunocytochemistry; Rat (Shioda, S. (47) 45)

mRNA; Hybridization, in situ; Estrogen; Enkephalin; Sexual behavior; Lordosis; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

Urokinase-type plasminogen activator; Plasminogen activator inhibitor-1; uPA mRNA and PAI-1 mRNA in mouse brain; Kainic acid; Limbic structure; Brain blood vessel; Stroke risk (Masos, T. (47) 157)

Nitric oxide synthase; Spontaneous hypertension; Paraventricular nucleus; Sympathetic nervous system; Polymerase chain reaction; Hybridization, in situ (Plochocka-Zulinska, D. (48) 291)

Preprotachykinin; NK-1; Gene expression; RNase protection assay; Estrous cycle; Rat (Gautreau, A. (49) 157)

Nitric oxide; Nitric oxide synthase; Carbon monoxide; Heme oxygenase interleukin-1β (Jacobs, R.A. (49) 238)

Carbon monoxide; Vasopressin; Heme oxygenase; Biliverdin; Hemin (Mancuso, C. (50) 267)

Supraoptic nucleus; Paraventricular nucleus; Vasopressin; Oxytocin; Neural plasticity; Obesity (Fetissov, S. (50) 314)

Galanin; Gene expression; Pituitary; Thyroid hormone (Hooi, S.C. (51) 15)

Alcohol; Corticotropin-releasing factor (CRF) receptor; Rat (Lee, S. (52) 78)

Hypothalamus, rat
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Astrocyte (Mancuso, C. (45) 294)

Hypoxia-ischemia
Ref-1; c-Jun; Programmed cell death; Apoptosis (Walton, M. (44) 167)

Heat-shock protein; Immediate-early gene; Brain injury; Stress; Hippocampus (Gilby, K.L. (48) 87)

Hypoxic-ischemia
Cyclooxygenase-2; Neuroprotection; Programmed cell death; Stroke; Microglia (Walton, M. (50) 165)

I

Ibuprofen
iNOS; Glia; Cultures; Neurodegenerative disorder (Stratman, N.C. (50) 107)

ICE
Caspase-1; Interleukin-1β-converting enzyme; Corticosteroid; Dexamethasone; Lipopolysaccharide; Microglia (Yao, J. (51) 170)

ICE-related protease
Programmed cell death; Hippocampus; Global cerebral ischemia; Kainic acid; Gene expression; Protease activity (Gillardon, F. (50) 16)

Id
Inhibitor of DNA binding; Helix-loop-helix; Astrocyte proliferation; Astrogliosis; Glial fibrillary acidic protein (Tzeng, S.-F. (46) 136)

[^{125}I]DOI
5-HT$_{2A}$ receptor; Mutation; Tryptamine; [^{3}H]Ketanserin; 5-Methoxytryptamine (Johnson, M.P. (49) 1)

IκB
AP-1; NF-κB; Glucocorticoid; Oxidative stress (Unlap, M.T. (45) 83)

IL-6
Cytokine; Cytokine receptor; gp130; JAK; Pathway; Trigeminal ganglion (Mizuno, M. (44) 163)

Metallothionein-I; Metallothionein-II; Metallothionein-III; Growth inhibitory factor; Endotoxin; Brain; Liver (Hernández, J. (48) 125)

Immediate-early gene
Brain; NGFI-A; Rat; Sleep; Sleep deprivation; Wakefulness; Zif/268 (Pompeiano, M. (46) 143)

Neurotrophin; trkC; Brain-derived neurotrophic factor; Memory (Dragunow, M. (46) 274)

Circadian rhythm; Suprachiasmatic nucleus; *nur77*; *zif268* (Lin, J.T. (46) 303)

c-*fos*; Neurotensin; Haloperidol; Striatum; Knockout mouse; Gene expression regulation (Shearman, L.P. (47) 275)

Heat-shock protein; Hypoxia-ischemia; Brain injury; Stress; Hippocampus (Gilby, K.L. (48) 87)

Antisense; Suppression; Rotation; Basal ganglia (Hebb, M.O. (48) 97)

Suprachiasmatic nucleus; Circadian rhythm; *c-fos*; Gene expression; Melatonin; Light (Kumar, V. (52) 242)

Circadian rhythm; Homer mRNA; In situ hybridization; Suprachiasmatic nucleus (Park, H.T. (52) 318)

Immune cells
Opioid receptor; δ-Opioid receptor; κ-Opioid receptor; Polymerase chain reaction; G-protein-coupled receptor; Brain (Gavériaux-Ruff, C. (48) 298)

Immunoautoradiography
Tyrosine hydroxylase; mRNA; Locus coeruleus; Dendrite; Ontogeny; Topology (Bezin, L. (50) 23)

Immunoblot
NMDAR2 subunit; Mouse monoclonal antibody; Brain expression; Development; Rat subunit; Mouse subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

Immunocytochemistry
Frequenin; Ca^{2+}-binding protein; Hybridization, in situ; Synapse; Astroglia (Olafsson, P. (44) 73)

Supraoptic nucleus; Hypothalamus; Glutamate; mRNA; NMDA; NR1; NR2; Double-labeling; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

D4 dopaminergic receptor; Antipeptide antibody; Benzamide binding; Rat brain (Defagot, M.C. (45) 1)

$InsP_4$ receptor; Retina; Hybridization, in situ; Optic nerve crush; Trauma; Inositol 1,3,4,5-tetrakisphosphate; Ca^{2+} (Kreutz, M.R. (45) 283)

Focal epilepsy; Glucose metabolism; FOS; JUN (Gass, P. (46) 177)

Acetylcholine receptor; Nicotinic receptor; Hypothalamus; Rat (Shioda, S. (47) 45)

β-Amyloid precursor protein; Antibody purification; Western and dot-blot analysis; APP localisation in brain cell; Cultured astrocyte and neuron; Alzheimer's disease (Rohan de Silva, H.A. (47) 147)

Islet amyloid polypeptide; Amylin; Calcitonin gene-related peptide; Sciatic nerve transection; Nerve suture; In situ hybridization (Mulder, H. (47) 322)

γ-Aminobutyric acid (GABA); Transporter; Taste bud; Gustatory; Tongue (Obata, H. (49) 29)

Pinopsin; Circadian clock; Chicken red; Pineal gland; Chicken (Okano, T. (50) 190)

Basal ganglia; Serotonergic lesion; Met-enkephalin; Substance P; In situ hybridization histochemistry; Rat (Compan, V. (50) 246)

Glycosylation; Protein conformation; Western blotting; Seven transmembrane receptor; Receptor subtype (Anthony, T.E. (50) 277)

mRNA; Acetylcholine; Hybridization histochemistry (Sugaya, K. (50) 305)

Immunoglobulin superfamily
AvGp50; Axonally expressed; Opioid binding cell adhesion molecule (OB-CAM); Limbic system-associated membrane protein (LAMP); Neurotrimin (Hancox, K.A. (44) 273)

F3; Axonal glycoprotein; Cell adhesion; Neural-specific promoter; Transmembrane signalling; Nuclear protein (Cangiano, G. (48) 279)

Immunohistochemistry
Excitatory amino acid; Hybridization, in situ; Vestibular nuclei; Chinchilla (Popper, P. (44) 21)

Adenylyl cyclase type I; RT-PCR; Inner hair cell; Cochlea (Drescher, M.J. (45) 325)

Gastrointestinal tract; Opioid receptors; μ- and κ-Opioid receptors; RNase protection assay (Fickel, J. (46) 1)

EHK-1; Receptor tyrosine kinase; Neuron; Glioma (Miescher, G.C. (46) 17)

PACAP; Mesencephalic trigeminal nucleus; Hybridization, in situ; Up-regulation; Proprioceptive neuron; Peripheral axotomy; Co-existence (Oemar Larsen, J. (46) 109)

Arginine vasopressin; Choroid plexus; Hybridization histochemistry, in situ; Rat (Chodobski, A. (48) 67)

Fusion protein; Western blot; Glycoprotein; Molecular size; Central nervous system (Helboe, L. (49) 82)

Focal ischemia; bFGF; Rat; Hybridization, in situ (Lin, T.N. (49) 255)

Myelin-associated glycoprotein; L-MAG; S-MAG; Competitive PCR (Miescher, G.C. (52) 299)

Inducible expression
NMDA receptor channel; ϵ1 subunit; ζ1 subunit; CHO cell; Drug screening system; Intracellular Ca^{2+} elevation; LDH activity (Uchino, S. (44) 1)

Inducible transcription factor
Fimbria-fornix; Mamillo-thalamic tract; Medial forebrain bundle; Neuronal nitric oxide synthase (Brecht, S. (48) 7)

Inflammation
Nitric oxide; Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Cytokine (Garcion, E. (45) 255)

Amylin; Freund's complete adjuvant; Monarthritis; Hybridization, in situ; Gene expression (Mulder, H. (50) 127)

Inhibitor of DNA binding
Id; Helix-loop-helix; Astrocyte proliferation; Astrogliosis; Glial fibrillary acidic protein (Tzeng, S.-F. (46) 136)

Initiation codon
Choline acetyltransferase; Human brain; cDNA cloning; Alternative splicing; Translation efficiency (Misawa, H. (44) 323)

Injury
Mouse; Astrocyte; Neuronal activity; Glial fibrillary acidic protein (Fujiki, M. (44) 301)

Inner hair cell
Adenylyl cyclase type I; RT-PCR; Cochlea; Immunohistochemistry (Drescher, M.J. (45) 325)

Innervation
Semaphorin; Collapsin; Axon guidance; Somite; Myotome; Dorsal root ganglia (Kikuchi, K. (51) 229)

Inositol 1,3,4,5-tetrakisphosphate
$InsP_4$ receptor; Retina; Hybridization, in situ; Immunocytochemistry; Optic nerve crush; Trauma; Ca^{2+} (Kreutz, M.R. (45) 283)

Inositol 1,4,5-trisphosphate
Aging; Striatum; Phosphatidylinositide; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate receptor mRNA; Inositol 1,4,5-trisphosphate 3-kinase; Inositol 1,4,5-trisphosphate 5-phosphatase (Igwe, O.J. (46) 39)

SKF 38393; Bromocriptine; SCH 23390; Raclopride; Somatostatin receptor; Adenylyl cyclase; Striatum (Izquierdo-Claros, R.M. (47) 99)

Inositol 1,4,5-trisphosphate 3-kinase
Aging; Striatum; Phosphatidylinositide; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate receptor mRNA; Inositol 1,4,5-trisphosphate 5-phosphatase (Igwe, O.J. (46) 39)

Inositol 1,4,5-trisphosphate 5-phosphatase
Aging; Striatum; Phosphatidylinositide; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate receptor mRNA; Inositol 1,4,5-trisphosphate 3-kinase (Igwe, O.J. (46) 39)

Inositol 1,4,5-trisphosphate receptor mRNA
Aging; Striatum; Phosphatidylinositide; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate 3-kinase; Inositol 1,4,5-trisphosphate 5-phosphatase (Igwe, O.J. (46) 39)

Inositol 1,4,5-trisphosphate receptor
Aging; Striatum; Phosphatidylinositide; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor mRNA; Inositol 1,4,5-trisphosphate 3-kinase; Inositol 1,4,5-trisphosphate 5-phosphatase (Igwe, O.J. (46) 39)

Insect cell
AMPA receptor; Glutamate receptor channel; α_1-Subunit; Ion channel; Agonist-binding site; Site-directed mutagenesis; Baculovirus (Kawamoto, S. (47) 339)

In situ
Protein tyrosine phosphatase; Protein tyrosine phosphatase ϵ; PC12D cell; Neuronal differentiation; Neural function; Development of cerebellum (Mukouyama, Y. (50) 230)

In situ hybridization
Synapsin II; Opiate tolerance; Morphine; Reverse transcriptase-polymerase chain reaction (RT-PCR); Regional distribution (Matus-Leibovitch, N. (45) 301)

Potassium channel; Cellular localization; Co-localization; Heteromultimer formation; Antisense transcripts (Verma-Kurvari, S. (46) 54)

c-*fos*; Orbitofrontal cortex; Somatosensory cortex; Motor cortex; Schizophrenia (Palmer, L.C. (46) 127)

Fatty acid transport protein; Fatty acid translocase; Brain; Ontogeny (Utsunomiya, A. (46) 217)

Dopamine transporter; Ovariectomy; Estradiol; Striatum; Nucleus accumbens; Substantia nigra; Ventral tegmental area (Bossé, R. (46) 343)

Islet amyloid polypeptide; Amylin; Calcitonin gene-related peptide; Sciatic nerve transection; Nerve suture; Immunocytochemistry (Mulder, H. (47) 322)

Glutamate/aspartate transporter; Cerebellum; Mouse; cDNA (Maeno-Hikichi, Y. (48) 176)

Neuropeptide Y Y_1 receptor; Receptor autoradiography; Rat brain; Ontogenesis (Tong, Y. (48) 323)

Epilepsy; Plasticity; Gene expression; Voltage-dependent calcium channel; mRNA; Hippocampus; Kindling (Hendriksen, H. (50) 257)

Rho GTPase; Northern blot hybridization; Western blot; Neuron; Brain (Olenik, C. (52) 263)

Circadian rhythm; Homer mRNA; Immediate-early gene; Suprachiasmatic nucleus (Park, H.T. (52) 318)

In situ hybridization histochemistry
Basal ganglia; Serotonergic lesion; Met-enkephalin; Substance P; Immunocytochemistry; Rat (Compan, V. (50) 246)

Tyrosine hydroxylase mRNA; Dopamine; Noradrenaline; Substantia nigra; Ventral tegmental area; Locus coeruleus; Methamphetamine (Shishido, T. (52) 146)

Ca^{2+}/calmodulin-dependent protein kinase; Cell death; Nervous system (Sakagami, H. (52) 249)

In situ hybridization (ISH)
Sodium channel; mRNA; Experimental epilepsy; Kainic acid; Reverse transcriptase-polymerase chain reaction (RT-PCR); Hippocampus; Rat, adult (Gastaldi, M. (44) 179)

$InsP_4$ receptor
Retina; Hybridization, in situ; Immunocytochemistry; Optic nerve crush; Trauma; Inositol 1,3,4,5-tetrakisphosphate; Ca^{2+} (Kreutz, M.R. (45) 283)

Insulin
Nerve growth factor; Protein kinase C; Angiotensin II type 2 receptor; Neuron (Huang, X.-C. (47) 229)

Insulin receptor substrate-1
Amyloid precursor protein; Neurotrophic activity; Nerve growth factor; Tyrosine phosphorylation; Growth factor potentiation (Wallace, W.C. (52) 213)

Interleukin-1
Type 2 interleukin-1 receptor; Kainic acid; Hybridization, in situ; Rat; Central nervous system; Convulsion (Nishiyori, A. (50) 237)

Interleukin-1 β
Cytokine; Microglia; β-Adrenoceptor; β_2-Subtype; Rat (Maruta, E. (49) 291)

Interleukin-1 β-converting enzyme
Axonal regeneration; Apoptosis; Retinal ganglion cell (Lucius, R. (48) 181)

Caspase-1; ICE; Corticosteroid; Dexamethasone; Lipopolysaccharide; Microglia (Yao, J. (51) 170)

Intermediate filament
Xenopus laevis; Neurofilament; Polyploidy; Gene duplication (Gervasi, C. (48) 229)

Internalization
Sodium channel; β_1 subunit; $\alpha\beta_1$ complex; Hippocampus; Postnatal development; Neuronal culture (Alcaraz, G. (51) 143)

Interneuron
Hybridization, in situ; Projections neuron; Huntington's disease; Excitotoxicity (Kerner, J.A. (48) 259)

Intracellular Ca^{2+} elevation
NMDA receptor channel; $\epsilon 1$ subunit; $\zeta 1$ subunit; Inducible expression; CHO cell; Drug screening system; LDH activity (Uchino, S. (44) 1)

Intracellular organelle
p24; Membrane protein; Neuron; Dendrite (Kadota, Y. (46) 265)

Intracerebral grafting
Embryonic ventral mesencephalon; Dopamine agonist; Animal model; Parkinson's disease (Cenci, M.A. (48) 149)

Intracerebral transplantation
Gene therapy; Engineered cell; Muscle cell (Lisovoski, F. (44) 125)

Intron
Tryptophan hydroxylase; Polymorphism; Serotonin; Polymerase chain reaction; Splicing; Linkage disequilibrium; Reverse transcription (Nielsen, D.A. (45) 145)

Invertebrate
Peptide pheromone; Pheromonal attraction; Albumen gland (Fan, X. (48) 167)

In vivo
Receptor, muscarinic; DFP; Phenserine (Haroutunian, V. (46) 161)

Inward rectifier
Dopamine; Dopamine receptor; G-protein; Kir3; Oocyte; Potassium channel (Nelson, C.S. (46) 185)

Ion channel
Development; Hybridization, in situ; Transcription (Felts, P.A. (45) 71)

AMPA receptor; Glutamate receptor channel; α_1-Subunit; Agonist-binding site; Site-directed mutagenesis; Baculovirus; Insect cell (Kawamoto, S. (47) 339)

Electrogenesis; Hybridization, in situ; mRNA; Optic nerve; Retina; RT-PCR (Fjell, J. (50) 197)

N-methyl-D-aspartate; *Xenopus* oocyte; Voltage-clamp; Diethylpyrocarbonate (Gray, A.T. (52) 157)

Ion transport
Calcium homeostasis; Brain; Northern analysis; Digoxin-labeled cDNA; Gene expression; NCX (Yu, L. (50) 285)

IP_3 receptor
Gene expression; Olfaction; Alternate splicing; Signal transduction; Sensory epithelium; Secretion; Calcium channel (Smutzer, G. (44) 347)

Irreversible ischemia
Amyloid protein precursor (APP); Rabbit spinal cord; Reversible ischemia; Stress-induced protein; Neuroprotection; Cell death (Komori, N. (49) 103)

Ischemia
Na^+-dependent phosphate cotransporter; CA1 pyramidal neuron; Cell death (Ni, B. (48) 132)

Cerebral ischemia; Rat; Hippocampus; Apoptosis; NF-κB; Neurodegeneration (Clemens, J.A. (48) 187)

ISHH
Arcuate nucleus; Digoxigenin; Hypothalamus; Opioid; Parity; POMC; Pregnancy (Mann, P.E. (46) 9)

Islet amyloid polypeptide
Amylin; Calcitonin gene-related peptide; Sciatic nerve transection; Nerve suture; In situ hybridization; Immunocytochemistry (Mulder, H. (47) 322)

Isoproterenol
Antisense oligonucleotide; Angiotensinogen; Angiotensin II; Renin; Thirst; Water intake (Sinnayah, P. (50) 43)

β-(Isoxazolin-5-on-4-yl)-L-alanine
GLAST; Sodium-dependent transporter; Oocyte; *Xenopus*; Neurolathyrism; *Lathyrus* toxin; β-ODAP (Kusama-Eguchi, K. (52) 166)

J

JAK
Cytokine; Cytokine receptor; IL-6; gp130; Pathway; Trigeminal ganglion (Mizuno, M. (44) 163)

JUN
Focal epilepsy; Glucose metabolism; FOS; Immunocytochemistry (Gass, P. (46) 177)

Jun
Global cerebral ischemia; Reperfusion injury; Oxidative stress; Redox regulation; APE; APEX; Fos; Neuronal cell death (Gillardon, F. (52) 194)

c-Jun
Ref-1; Hypoxia-ischemia; Programmed cell death; Apoptosis (Walton, M. (44) 167)

JunB
Axotomy; Brain-derived neurotrophic factor; c-jun; Dorsal root ganglion; JunD; Nerve growth factor; Rhizotomy (Kenney, A.M. (52) 53)

JunD
Axotomy; Brain-derived neurotrophic factor; c-jun; Dorsal root ganglion; JunB; Nerve growth factor; Rhizotomy (Kenney, A.M. (52) 53)

6-Hydroxydopamine; Priming; Supersensitivity; Dopamine agonist; AP-1; FosB; cFos (Vallone, D. (52) 307)

K

Kainate
Glutamate; AMPA; *N*-Methyl-D-aspartate (NMDA); Motoneuron; Spinal cord; Alternative splicing; RNA (Temkin, R. (52) 38)

Glutamate receptor; RNA editing; Cerebellum; Granule cell; Development (Belcher, S.M. (52) 130)

Kainic acid
Sodium channel; mRNA; Experimental epilepsy; Reverse transcriptase-polymerase chain reaction (RT-PCR); In situ hybridization (ISH); Hippocampus; Rat, adult (Gastaldi, M. (44) 179)

Epilepsy; Neurotrophin; Development; Hybridization, in situ; Electroencephalogram; Pilocarpine; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Plasma membrane calcium ATPase; Cell death; Seizure; Hippocampus; mRNA; Glutamate (Garcia, M.L. (45) 230)

Urokinase-type plasminogen activator; Plasminogen activator inhibitor-1; uPA mRNA and PAI-1 mRNA in mouse brain; Limbic structure; Brain blood vessel; Stroke risk; Hypothalamus (Masos, T. (47) 157)

Cycloheximide; Proenkephalin; Prodynorphin; Proto-oncogene; Hippocampus (Won, J.-S. (47) 303)

Transgenic mice; Superoxide dismutase; Free radical; Hippocampus; Nick translation, in situ (Hirata, H. (48) 145)

Programmed cell death; ICE-related protease; Hippocampus; Global cerebral ischemia; Gene expression; Protease activity (Gillardon, F. (50) 16)

Type 2 interleukin-1 receptor; Hybridization, in situ; Rat; Central nervous system; Convulsion; Interleukin-1 (Nishiyori, A. (50) 237)

Synthesis regulation; Chromogranin A; Chromogranin B; Secretogranin II; Enkephalin; Neuropeptide Y; Epilepsy (Tsunashima, K. (51) 42)

Kindling
Epilepsy; In situ hybridization; Plasticity; Gene expression; Voltage-dependent calcium channel; mRNA; Hippocampus (Hendriksen, H. (50) 257)

Epilepsy; Transcriptonal regulation; Gene promoter; γ-Aminobutyric acid; Transgenic mouse (Penschuck, S. (51) 212)

Kinesin
Choroid plexus; Secretion; Cerebrospinal fluid; Epithelia; Hybridization, in situ (Rogers, K.R. (51) 161)

Kir3
Dopamine; Dopamine receptor; G-protein; Inward rectifier; Oocyte; Potassium channel (Nelson, C.S. (46) 185)

Knockout mouse
c-*fos*; Neurotensin; Haloperidol; Immediate-early gene; Striatum; Gene expression regulation (Shearman, L.P. (47) 275)

K*rev*-1 / *rap* 1A
Rap 1B; H-*ras*; Gene expression; Spinal cord; Noxious stimulation (Urayama, O. (45) 331)

L

LacZ
Plasmid DNA; GFAP promoter; NSE promoter; HCMV promoter (Hannas-Djebbara, Z. (46) 91)

Lateral fluid percussion
Traumatic brain injury; Brain-derived neurotrophic factor; Neurotrophin-3; Hybridization, in situ; Neuronal plasticity (Hicks, R.R. (48) 401)

***Lathyrus* toxin**
GLAST; Sodium-dependent transporter; Oocyte; *Xenopus*; Neurolathyrism; β-(Isoxazolin-5-on-4-yl)-L-alanine; β-ODAP (Kusama-Eguchi, K. (52) 166)

LDH activity
NMDA receptor channel; $\epsilon 1$ subunit; $\zeta 1$ subunit; Inducible expression; CHO cell; Drug screening system; Intracellular Ca^{2+} elevation (Uchino, S. (44) 1)

Learning and memory
Vasopressin receptor; RT-PCR; Neuron; Astroglia; Oligodendroglia; mRNA; Cerebral cortex (Yamazaki, R.S. (45) 138)

Leech
Egg-laying hormone; Neuropeptide; Phylogeny (Salzet, M. (49) 211)

Angiotensin-converting enzyme; Multicellular cooperation; Renin–angiotensin system (Vandenbulcke, F. (49) 229)

Annelid; Prodynorphin; Neuropeptide; Sequence; Opioid; Phylogeny (Salzet, M. (52) 46)

Ligand binding
Angiotensin; AT_2 receptor; Mutagenesis (Yee, D.K. (51) 238)

Ligand-gated channel
ATP receptor; P2X; Human spinal cord; Human heart (Garcia-Guzman, M. (47) 59)

Ligand-gated ion-channel
Benzodiazepine tolerance; Benzodiazepine receptor; Nuclear run-off assay; Gene regulation (Holt, R.A. (48) 164)

Light
Suprachiasmatic nucleus; Circadian rhythm; *c-fos*; Gene expression; Immediate-early gene; Melatonin (Kumar, V. (52) 242)

Limbic structure
Urokinase-type plasminogen activator; Plasminogen activator inhibitor-1; uPA mRNA and PAI-1 mRNA in mouse brain; Kainic acid; Brain blood vessel; Stroke risk; Hypothalamus (Masos, T. (47) 157)

Limbic system
Eph family receptor; Hybridization, in situ; Neurogenesis; Topographic projection; Axonal guidance (Zhang, J.-H. (47) 202)

Limbic system-associated membrane protein (LAMP)
AvGp50; Axonally expressed; Immunoglobulin superfamily; Opioid binding cell adhesion molecule (OB-CAM); Neurotrimin (Hancox, K.A. (44) 273)

LIM motif
Non-receptor serine/threonine kinase; Hybridization histochemistry, in situ; Differential gene expression; Developing nervous system (Mori, T. (45) 247)

Linkage disequilibrium
Tryptophan hydroxylase; Polymorphism; Serotonin; Polymerase chain reaction; Intron; Splicing; Reverse transcription (Nielsen, D.A. (45) 145)

Lipopolysaccharide
Corticotropin-releasing hormone; Receptor; Paraventricular nucleus; Glucocorticoid (Makino, S. (47) 170)

Caspase-1; Interleukin-1β-converting enzyme; ICE; Corticosteroid; Dexamethasone; Microglia (Yao, J. (51) 170)

Lithium
Bipolar disorder; Transcription factor; AP-1; NF-κB; Cholinergic stimulation (Jope, R.S. (50) 171)

Melanin-concentrating hormone; Tyrosine hydroxylase; Neurotensin; mRNA stability; Gene transcription; Glucocorticoids; PC12 cells (Presse, F. (52) 270)

Liver
Metallothionein-I; Metallothionein-II; Metallothionein-III; Growth inhibitory factor; IL-6; Endotoxin; Brain (Hernández, J. (48) 125)

Locus ceruleus
Galanin; Tyrosine hydroxylase; Estradiol (Tseng, J.Y. (50) 100)

Locus coeruleus
Seizure; Substantia nigra; Ventral tegmentum area; Pentylenetetrazol; c-*fos*; Neurotransporter (Szot, P. (44) 46)

Ventral tegmental area; Substantia nigra; Dorsal raphe; Cocaine; Transport; Hybridization, in situ (Burchett, S.A. (49) 95)

Tyrosine hydroxylase; mRNA; Dendrite; Ontogeny; Immunoautoradiography; Topology (Bezin, L. (50) 23)

In situ hybridization histochemistry; Tyrosine hydroxylase mRNA; Dopamine; Noradrenaline; Substantia nigra; Ventral tegmental area; Methamphetamine (Shishido, T. (52) 146)

Long-sleep mouse
Ethanol; Propofol; Glycine; *Xenopus* oocyte; Genetics; Neurosteroid (Mascia, M.P. (45) 169)

Long-term potentiation
Adenovirus; Hippocampus; Synaptic plasticity (Griesbeck, O. (44) 171)

Lordosis
mRNA; Hybridization, in situ; Estrogen; Enkephalin; Sexual behavior; Hypothalamus; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

Low molecular weight GTP-binding protein
Differentiation; Protein kinase C; RhoA; Glioma; Rat (Yoshimura, S.-i. (45) 90)

LSD
Phencyclidine; Schizophrenia; Aromatic L-amino acid decarboxylase; Dopa decarboxylase; Candidate gene (Buckland, P.R. (49) 266)

Luciferase
Brain-derived neurotrophic factor; Promoter; Sequence; Primary cortico-hippocampal culture; Transient expression (Hayes, V.Y. (45) 189)

S100; Transcription; Glia; Promoter (Castets, F. (46) 208)

Luciferase transfection
Calretinin gene; Neuron-restrictive promoter; Embryonic mouse brain primary culture (Strauss, K.I. (49) 175)

Lung
Fibroblast growth factor-2; Competitive RT-PCR; Reinnervation; Peripheral nervous system; Schwann cell (Shimada, J. (49) 295)

Luteinizing hormone
Serotonin; Transporter; Estradiol; Rat; Affective disorder (McQueen, J.K. (45) 13)

Androgen receptor; Estrogen receptor; Gonadotrophin-releasing hormone; Luteinizing-releasing hormone; Male rat; mRNA; Preoptic area (Spratt, D.P. (47) 125)

Luteinizing hormone-releasing hormone
Gonadotropin-releasing hormone; Opioid; μ-Opioid receptor; Estrogen; Progesterone (Petersen, S.L. (52) 32)

Luteinizing-releasing hormone
Androgen receptor; Estrogen receptor; Gonadotrophin-releasing hormone; Luteinizing hormone; Male rat; mRNA; Preoptic area (Spratt, D.P. (47) 125)

Lysophosphatidic acid
ACh receptor; G-protein; Protein kinase C; Phosphorylation; Site-directed mutagenesis; Voltage clamp (Nishizaki, T. (50) 121)

Lysophosphatidylcholine
Nicotinic acetylcholine receptor; *Torpedo*; Lysophosphatidylethanolamine; Protein kinase C; Voltage-clamp (Ikeuchi, Y. (45) 317)

Lysophosphatidylethanolamine
Nicotinic acetylcholine receptor; *Torpedo*; Lysophosphatidylcholine; Protein kinase C; Voltage-clamp (Ikeuchi, Y. (45) 317)

Lysosomal
Selective neuronal vulnerability; Gene expression (Sun, N. (45) 353)

M

MA
Glutathione peroxidase; PC12; ROS; MPTP; Dopaminergic (Hom, D.G. (46) 154)

Macrophage
Nitric oxide; Monocyte; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Tellurium; Demyelination; NGF receptor; Peripheral neuropathy (Toews, A.D. (49) 113)

L-MAG
Myelin-associated glycoprotein; S-MAG; Competitive PCR; Immunohistochemistry (Miescher, G.C. (52) 299)

S-MAG
Myelin-associated glycoprotein; L-MAG; Competitive PCR; Immunohistochemistry (Miescher, G.C. (52) 299)

Male rat
Androgen receptor; Estrogen receptor; Gonadotrophin-releasing hormone; Luteinizing hormone; Luteinizing-releasing hormone; mRNA; Preoptic area (Spratt, D.P. (47) 125)

Mamillo-thalamic tract
Fimbria-fornix; Inducible transcription factor; Medial forebrain bundle; Neuronal nitric oxide synthase (Brecht, S. (48) 7)

Maternal behavior
c-*fos*; Sheep; Olfactory memory; Parturition; Vaginocervical stimulation; *zif*/268 (Da Costa, A.P.C. (46) 63)

MCH
NEI; Chromosome 12q23; Neuropeptide gene expression; Hypothalamus; Thymus; Brown adipose tissue; Differential processing (Viale, A. (46) 243)

MDL72974
Deprenyl; Neurorescue; Tyrosine hydroxylase; Monoamine oxidase; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Thiffault, C. (44) 238)

Mechanism
Dopamine; Norepinephrine; Monoamine oxidase inhibitor; Respiratory chain; Enzyme regulation; Superoxide dismutase; L-Deprenyl (Thiffault, C. (49) 127)

Medial forebrain bundle
Fimbria-fornix; Inducible transcription factor; Mamillo-thalamic tract; Neuronal nitric oxide synthase (Brecht, S. (48) 7)

Medial medullary lamina
Somatostatin; Basal ganglia; Hybridization, in situ; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Eve, D.J. (50) 59)

Medulla oblongata
Norepinephrine transporter; Tyrosine hydroxylase; Neuropeptide Y; Dopamine β-hydroxylase; Hybridization, in situ; Brainstem; Rabbit (Pau, K.-Y.F. (48) 367)

Melanin
Molecular cloning; Human; Dopamine; Transfection; Aging (Yamada, M. (44) 12)

Melanin-concentrating hormone
Tyrosine hydroxylase; Neurotensin; mRNA stability; Gene transcription; Lithium; Glucocorticoids; PC12 cells (Presse, F. (52) 270)

Melanophore
Olfaction; Olfactory receptor; Signal transduction; GTP-binding protein; Cyclic adenosine 3′:5′-monophosphate; Functional expression; Molecular sequence data (McClintock, T.S. (48) 270)

Melatonin
Glucocorticoid; Serotonin; Tryptophan hydroxylase; Thyroid C cell; Parafollicular cell; Competitive RT-PCR (Clark, M.S. (48) 346)

Suprachiasmatic nucleus; Circadian rhythm; *c-fos*; Gene expression; Immediate-early gene; Light (Kumar, V. (52) 242)

Membrane protein
p24; Neuron; Intracellular organelle; Dendrite (Kadota, Y. (46) 265)

Memory
Neurotrophin; trkC; Brain-derived neurotrophic factor; Immediate-early gene (Dragunow, M. (46) 274)

Meningeal cell
Somatostatin; Octreotide; Receptor; Proliferation; Endopeptidase-24.11; Fibroblast (Feindt, J. (44) 293)

Menkes ATPase
Copper homeostasis; RT-PCR; C6 glioma cell; PC12 cell (Qian, Y. (48) 60)

Mesencephalic trigeminal nucleus
PACAP; Hybridization, in situ; Immunohistochemistry; Up-regulation; Proprioceptive neuron; Peripheral axotomy; Co-existence (Oemar Larsen, J. (46) 109)

Messenger ribonucleic acid (mRNA)
Pro-opiomelanocortin (POMC); Regulation; Hypothalamic cell culture; Estradiol; Gene expression; Estrogen (Gao, Y. (45) 340)

Metabolism
Prion; Scrapie; Neurodegenerative; Genetic; Creutzfeldt–Jakob disease; Mutant; Heterozygous (Lehmann, S. (52) 139)

Metalloendopeptidase
Cathepsin D; Expression; Amyloid-β-protein; β-Secretase; Alzheimer's disease; Amyloidogenic cleavage (Thompson, A. (48) 206)

Metallothionein-I
Metallothionein-II; Metallothionein-III; Growth inhibitory factor; IL-6; Endotoxin; Brain; Liver (Hernández, J. (48) 125)

Metallothionein-II
Metallothionein-I; Metallothionein-III; Growth inhibitory factor; IL-6; Endotoxin; Brain; Liver (Hernández, J. (48) 125)

Metallothionein-III
Metallothionein-I; Metallothionein-II; Growth inhibitory factor; IL-6; Endotoxin; Brain; Liver (Hernández, J. (48) 125)

Met-enkephalin
Basal ganglia; Serotonergic lesion; Substance P; Immunocytochemistry; In situ hybridization histochemistry; Rat (Compan, V. (50) 246)

Methamphetamine
In situ hybridization histochemistry; Tyrosine hydroxylase mRNA; Dopamine; Noradrenaline; Substantia nigra; Ventral tegmental area; Locus coeruleus (Shishido, T. (52) 146)

5-Methoxytryptamine
5-HT_{2A} receptor; Mutation; Tryptamine; [^{3}H]Ketanserin; [^{125}I]DOI (Johnson, M.P. (49) 1)

***N*-Methyl-D-aspartate (NMDA)**
Excitatory amino acid; Heat-shock protein; Toxicity; Vacuole; AMPA (Lan, J.Q. (46) 297)

Angiotensin; Angiotensin receptor; AT_2 receptor; NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Glutamate; AMPA; Kainate; Motoneuron; Spinal cord; Alternative splicing; RNA (Temkin, R. (52) 38)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Deprenyl; MDL72974; Neurorescue; Tyrosine hydroxylase; Monoamine oxidase (Thiffault, C. (44) 238)

***N*-Methyl-1,2,3,6-tetrahydropyridine (MPTP)**
Vesicular monoamine transporter (VMAT2); cDNA; Gene; Promoter; Amphetamine (Takahashi, N. (49) 7)

Metyrapone
Hippocampus; Serotonin receptor; Gene expression; Glucocorticoid; Aminoglutethimide (Yau, J.L.W. (45) 182)

Microdialysis
CA1; γ-Aminobutyric acid; Glutamic acid decarboxylase; Hybridization, in situ; Quisqualate (Falkenberg, T. (48) 413)

Microdissection
Enkephalin gene; Regulation; Development; Protein–DNA interaction (Dobi, A. (52) 98)

Microfluorimetry
Central nervous system; Astrocyte; C5a anaphylatoxin receptor; Rat; cDNA; RT-PCR (Sayah, S. (48) 215)

Microglia
Nitric oxide; Monocyte; Macrophage; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Interleukin-1β; Cytokine; β-Adrenoceptor; β_2-Subtype; Rat (Maruta, E. (49) 291)

Hypoxic-ischemia; Cyclooxygenase-2; Neuroprotection; Programmed cell death; Stroke (Walton, M. (50) 165)

Caspase-1; Interleukin-1β-converting enzyme; ICE; Corticosteroid; Dexamethasone; Lipopolysaccharide (Yao, J. (51) 170)

Microtubule
Huntington's disease; Huntingtin; Polyglutamine; CAG repeat; Tubulin; Glyceraldehyde-3-phosphate dehydrogenase; Calmodulin (Tukamoto, T. (51) 8)

Microtubule-associated protein tau
Sciatic nerve; Axotomy; Nerve regeneration (Chambers, C.B. (48) 115)

Mineralocorticoid receptor
Glucocorticoid receptor; Hippocampus; Serotonin 1A receptor; Mouse; 8-OH-DPAT; Adrenalectomy; Corticosterone (Meijer, O.C. (46) 290)

Mitochondria
Northern blot; mRNA; Oxidative phosphorylation; Energy metabolism; Cerebral cortex; Brain; Alzheimer disease (Chandrasekaran, K. (44) 99)

Mitochondrial DNA
Aging; Mitochondrial transcription; Brain (Barrientos, A. (52) 284)

Mitochondrial transcription
Aging; Mitochondrial DNA; Brain (Barrientos, A. (52) 284)

Mitogen-activated protein kinase (MAPK)
Brain-derived neurotrophic factor (BDNF); Stathmin; 2D-PAGE; Phosphorylation; Nerve growth factor (NGF); Cortical neurons (Cardinaux, J.-R. (51) 220)

Mitogen-activated protein kinase
Astrocyte; Ceramide; Nerve growth factor; Raf-1; Sphingomyelinase (Galve-Roperh, I. (52) 90)

MK-801
Glutamate transport; Excitotoxicity; Striatum; Huntington's disease; Hybridization, in situ (Liévens, J.-C. (50) 181)

MMP-2
Neuroblastoma; Ciliary neurotrophic factor (CNTF); TIMP-2 (Negro, A. (48) 30)

Mofezolac
c-*fos*; mRNA expression; Prostaglandin; Cyclooxygenase; Nociception; NS-398; Nonsteroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

Molecular cloning
Human; Dopamine; Transfection; Melanin; Aging (Yamada, M. (44) 12)

Angiotensin receptor; N1E-115 cell; AT_2 receptor heterogeneity (Yee, D.K. (45) 108)

Molecular sequence data
Olfaction; Olfactory receptor; Signal transduction; GTP-binding protein; Cyclic adenosine 3′:5′-monophosphate; Functional expression; Melanophore (McClintock, T.S. (48) 270)

Molecular size
Fusion protein; Western blot; Immunohistochemistry; Glycoprotein; Central nervous system (Helboe, L. (49) 82)

Monarthritis
Amylin; Freund's complete adjuvant; Inflammation; Hybridization, in situ; Gene expression (Mulder, H. (50) 127)

Monoamine oxidase
Deprenyl; MDL72974; Neurorescue; Tyrosine hydroxylase; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Thiffault, C. (44) 238)

Monoamine oxidase inhibitor
Dopamine; Norepinephrine; Respiratory chain; Mechanism; Enzyme regulation; Superoxide dismutase; L-Deprenyl (Thiffault, C. (49) 127)

Monoclonal antibody
Synapsin; Synaptic vesicle; Protein kinase A; CaM kinase II; SH3 domain; Actin; Epitope mapping; Peptide library (Vaccaro, P. (52) 1)

Monocyte
Nitric oxide; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Monomeric GTP-binding protein
Myelin; Oligodendrocyte; Signalling (Burcelin, R. (50) 9)

MOR
mRNA; Hybridization, in situ; Estrogen; Enkephalin; Sexual behavior; Lordosis; Hypothalamus; Amygdala (Quiñones-Jenab, V. (47) 134)

Morphine
μ-Opioid receptor mRNA (MOR); μ-Opioid receptor binding; Ribonuclease protection assay; Gene expression; Naltrexone (Castelli, M.P. (45) 149)

Synapsin II; Opiate tolerance; In situ hybridization; Reverse transcriptase-polymerase chain reaction (RT-PCR); Regional distribution (Matus-Leibovitch, N. (45) 301)

Morphine abstinence syndrome
Opiate addiction; Morphine dependence; α_{2a}-Adrenoceptor mRNA; Northern and dot-blot analyses; Rat brain (Busquets, X. (45) 154)

Morphine dependence
Opiate addiction; Morphine abstinence syndrome; α_{2a}-Adrenoceptor mRNA; Northern and dot-blot analyses; Rat brain (Busquets, X. (45) 154)

Motoneuron
Glutamate; AMPA; Kainate; *N*-Methyl-D-aspartate (NMDA); Spinal cord; Alternative splicing; RNA (Temkin, R. (52) 38)

Motor control
Transcription; DNA–protein interaction; Aging; Neurodegenerative disease; Parkinson's; Huntington's; Striatum (Chernak, J.M. (44) 113)

Motor cortex
c-*fos*; Orbitofrontal cortex; Somatosensory cortex; Schizophrenia; In situ hybridization (Palmer, L.C. (46) 127)

Motor neurone disease
Human glutamate transporter; EAAT2; GLT-1; Motor system (Milton, I.D. (52) 17)

Motor system
Human glutamate transporter; EAAT2; GLT-1; Motor neurone disease (Milton, I.D. (52) 17)

Mouse
Serotonin transporter; Gene organization; Promoter; Antidepressant; Anxiety; Alcoholism; Affective disorder (Bengel, D. (44) 286)

Astrocyte; Injury; Neuronal activity; Glial fibrillary acidic protein (Fujiki, M. (44) 301)

Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Serotonin 1A receptor; 8-OH-DPAT; Adrenalectomy; Corticosterone (Meijer, O.C. (46) 290)

Glutamate/aspartate transporter; Cerebellum; cDNA; In situ hybridization (Maeno-Hikichi, Y. (48) 176)

Mouse monoclonal antibody
NMDAR2 subunit; Immunoblot; Brain expression; Development; Rat subunit; Mouse subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

Mouse strain
Seizure-related gene; PTZ-17; Calcium entry; Seizure susceptibility; Pentylenetetrazol; 3′-Untranslated region; Post-transcriptional regulation (Kajiwara, K. (47) 49)

Mouse subunit
NMDAR2 subunit; Mouse monoclonal antibody; Immunoblot; Brain expression; Development; Rat subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

MPTP
Glutathione peroxidase; PC12; ROS; MA; Dopaminergic (Hom, D.G. (46) 154)

MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine)
Somatostatin; Basal ganglia; Hybridization, in situ; Parkinson's disease; Medial medullary lamina (Eve, D.J. (50) 59)

MPTP monkey
Preproenkephalin; Parkinson; Dopamine agonist; L-DOPA; Caudate-putamen; Hybridization, in situ (Morissette, M. (49) 55)

Multicellular cooperation
Angiotensin-converting enzyme; Leech; Renin–angiotensin system (Vandenbulcke, F. (49) 229)

Multiplex differential display
Cocaine; Striatum; Zinc-finger protein; Gene regulation (Ennulat, D.J. (49) 299)

Muscarinic acetylcholine receptor
Ethanol; c-*fos* expression; Protein kinase C; Neuroblastoma SH-SY5Y cell (Ding, W.-Q. (46) 77)

Muscle activation history
Phrenic; Soleus; Extensor digitorum longus; Tensor fascia latae motor pool (Blanco, C.E. (44) 253)

Muscle cell
Intracerebral transplantation; Gene therapy; Engineered cell (Lisovoski, F. (44) 125)

Mutagenesis
Neurotensin; Receptor; Binding; Charged amino acid (Botto, J.-M. (46) 311)

Angiotensin; AT_2 receptor; Ligand binding (Yee, D.K. (51) 238)

Mutant
Prion; Scrapie; Neurodegenerative; Genetic; Creutzfeldt–Jakob disease; Heterozygous; Metabolism (Lehmann, S. (52) 139)

Mutation
5-HT_{2A} receptor; Tryptamine; [^{3}H]Ketanserin; [^{125}I]DOI; 5-Methoxytryptamine (Johnson, M.P. (49) 1)

Myelin
Oligodendrocyte; Monomeric GTP-binding protein; Signalling (Burcelin, R. (50) 9)

Myelin-associated glycoprotein
L-MAG; S-MAG; Competitive PCR; Immunohistochemistry (Miescher, G.C. (52) 299)

Myotome
Semaphorin; Collapsin; Axon guidance; Innervation; Somite; Dorsal root ganglia (Kikuchi, K. (51) 229)

N

NAC
Alzheimer's disease; ApoE; Binding (Olesen, O.F. (44) 105)

Na^+-dependent phosphate cotransporter
Ischemia; CA1 pyramidal neuron; Cell death (Ni, B. (48) 132)

NADPH-diaphorase histochemistry
Nitric oxide synthase; Stab-lesion; Cerebellum; Purkinje cell; Glutamic acid decarboxylase; Hybridization, in situ (Shigeyoshi, Y. (44) 229)

Naltrexone
μ-Opioid receptor mRNA (MOR); μ-Opioid receptor binding; Ribonuclease protection assay; Gene expression; Morphine (Castelli, M.P. (45) 149)

Na^+/*myo*-inositol cotransporter
Taurine transporter; Hybridization, in situ; Hyperosmolality; Eye (Morimura, H. (44) 245)

Osmolyte; Blood–brain barrier (Guo, W. (51) 91)

NCX
Calcium homeostasis; Ion transport; Brain; Northern analysis; Digoxin-labeled cDNA; Gene expression (Yu, L. (50) 285)

N1E-115 cell
Angiotensin receptor; Molecular cloning; AT_2 receptor heterogeneity (Yee, D.K. (45) 108)

NEI
MCH; Chromosome 12q23; Neuropeptide gene expression; Hypothalamus; Thymus; Brown adipose tissue; Differential processing (Viale, A. (46) 243)

Neostriatum
L-DOPA treatment; Dopamine; Neuropeptide; mRNA expression (Salin, P. (47) 311)

Nerve growth factor
AP-1; NMDA receptor; Striatum; Transcription factor (Hollen, K.M. (47) 31)

Insulin; Protein kinase C; Angiotensin II type 2 receptor; Neuron (Huang, X.-C. (47) 229)

Fibroblast growth factor; Tyrosine hydroxylase; PC12 cells; Transcription; AP-1 (Osaka, H. (49) 222)

Axotomy; Brain-derived neurotrophic factor; c-jun; Dorsal root ganglion; JunB; JunD; Rhizotomy (Kenney, A.M. (52) 53)

Astrocyte; Ceramide; Mitogen-activated protein kinase; Raf-1; Sphingomyelinase (Galve-Roperh, I. (52) 90)

Amyloid precursor protein; Neurotrophic activity; Growth factor potentiation (Wallace, W.C. (52) 201)

Amyloid precursor protein; Neurotrophic activity; Insulin receptor substrate-1; Tyrosine phosphorylation; Growth factor potentiation (Wallace, W.C. (52) 213)

Nerve growth factor (NGF)
Ethylcholine aziridinium (AF64A); Brain-derived neurotrophic factor (BDNF); Cholinergic basal forebrain; Neurotrophin-3 (NT-3); Septohippocampal pathway; Choline acetyltransferase (ChAT) (Hellweg, R. (45) 177)

Etoposide; PC12 cell; Apoptosis; DNA fragmentation; Programmed cell death (Saura, J. (48) 382)

Brain-derived neurotrophic factor (BDNF); Stathmin; Mitogen-activated protein kinase (MAPK); 2D-PAGE; Phosphorylation; Cortical neurons (Cardinaux, J.-R. (51) 220)

Nerve injury
Dorsal root ganglion; Neuropathic pain; RT-PCR; *SCN10A*; α-SNS; Voltage-gated sodium channel; Hyperalgesia (Oaklander, A.L. (52) 162)

Nerve regeneration
Microtubule-associated protein tau; Sciatic nerve; Axotomy (Chambers, C.B. (48) 115)

Nerve suture
Islet amyloid polypeptide; Amylin; Calcitonin gene-related peptide; Sciatic nerve transection; In situ hybridization; Immunocytochemistry (Mulder, H. (47) 322)

Nervous system
Ca^{2+}/calmodulin-dependent protein kinase; In situ hybridization histochemistry; Cell death (Sakagami, H. (52) 249)

Neural differentiation
P19 cell line; Embryonal carcinoma; Neurofilament; Gene expression; Cell differentiation (Paterno, G.D. (49) 247)

Neural function
Protein tyrosine phosphatase; Protein tyrosine phosphatase ϵ; PC12D cell; Neuronal differentiation; Development of cerebellum; In situ (Mukouyama, Y. (50) 230)

Neural plasticity
Hypothalamus; Supraoptic nucleus; Paraventricular nucleus; Vasopressin; Oxytocin; Obesity (Fetissov, S. (50) 314)

Neural-specific promoter
F3; Axonal glycoprotein; Cell adhesion; Immunoglobulin superfamily; Transmembrane signalling; Nuclear protein (Cangiano, G. (48) 279)

Neurite growth
Proteoglycan; Glutamate; Gene expression; Hippocampal neuron (Wang, W. (48) 355)

Neuroblastoma
Ciliary neurotrophic factor (CNTF); MMP-2; TIMP-2 (Negro, A. (48) 30)

Neuroblastoma cell
DNA binding protein; ARP-1; COUP-TF; Retinoid X receptor; Enkephalin (Chan, R.M. (45) 50)

Neuroblastoma SH-SY5Y cell
Ethanol; Muscarinic acetylcholine receptor; c-*fos* expression; Protein kinase C (Ding, W.-Q. (46) 77)

Neurodegeneration
Cerebral ischemia; Rat; Hippocampus; Apoptosis; Ischemia; NF-κB (Clemens, J.A. (48) 187)

Brain-derived neurotrophic factor; Alzheimer's disease; Hippocampus; Down's syndrome (Connor, B. (49) 71)

Neurotrophic factor; Astrogliosis; Senile plaque; β-Amyloid protein (Connor, B. (49) 283)

Neurodegenerative
Prion; Scrapie; Genetic; Creutzfeldt–Jakob disease; Mutant; Heterozygous; Metabolism (Lehmann, S. (52) 139)

Neurodegenerative disease
Transcription; DNA–protein interaction; Aging; Parkinson's; Huntington's; Motor control; Striatum (Chernak, J.M. (44) 113)

Neurodegenerative disorder
iNOS; Glia; Cultures; Ibuprofen (Stratman, N.C. (50) 107)

Neurofilament
Xenopus laevis; Intermediate filament; Polyploidy; Gene duplication (Gervasi, C. (48) 229)

Transcription, in vitro; NF-1; SP1; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (48) 305)

Cytoskeleton; Protein phosphatase; Protein kinase; Spinal cord; Axon (Strack, S. (49) 15)

Neural differentiation; P19 cell line; Embryonal carcinoma; Gene expression; Cell differentiation (Paterno, G.D. (49) 247)

Neurogenesis
Eph family receptor; Hybridization, in situ; Limbic system; Topographic projection; Axonal guidance (Zhang, J.-H. (47) 202)

Neurolathyrism
GLAST; Sodium-dependent transporter; Oocyte; *Xenopus*; *Lathyrus* toxin; β-(Isoxazolin-5-on-4-yl)-L-alanine; β-ODAP (Kusama-Eguchi, K. (52) 166)

Neuron
Testis; Cerebral cortex; Gene expression; Promoter; Gene discovery; CpG island; Transmembrane protein (Herbst, R. (44) 309)

Vasopressin receptor; RT-PCR; Astroglia; Oligodendroglia; mRNA; Cerebral cortex; Learning and memory (Yamazaki, R.S. (45) 138)

EHK-1; Receptor tyrosine kinase; Glioma; Immunohistochemistry (Miescher, G.C. (46) 17)

p24; Membrane protein; Intracellular organelle; Dendrite (Kadota, Y. (46) 265)

Fibroblast growth factor (FGF); mRNA; Brain; Rat; Gene expression (Hattori, Y. (47) 139)

Nerve growth factor; Insulin; Protein kinase C; Angiotensin II type 2 receptor (Huang, X.-C. (47) 229)

Brain; Ecto-apyrase; Ecto-ATPase; CD39; Astrocyte; Gene (Wang, T.-F. (47) 295)

Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Complement; Chemotactic receptor; Traumatic brain injury (Stahel, P.F. (50) 205)

Oxidative stress; Brain derived neurotrophic factor; Cell viability; Transcription factor; DNA binding activity; Culture; Glia (Iwata, E. (50) 213)

Rho GTPase; In situ hybridization; Northern blot hybridization; Western blot; Brain (Olenik, C. (52) 263)

Neuronal
κ-Bungarotoxin; Adenovirus; Recombinant; Acetylcholine; Nicotinic; Oocyte (Gorman, S. (44) 143)

Neuronal activity
Mouse; Astrocyte; Injury; Glial fibrillary acidic protein (Fujiki, M. (44) 301)

Neuronal cell death
Calcium homeostasis; Hippocampus; Hybridization, in situ; Plasma membrane calcium ATPase (Zacharias, D.A. (45) 173)

Global cerebral ischemia; Reperfusion injury; Oxidative stress; Redox regulation; APE; APEX; Jun; Fos (Gillardon, F. (52) 194)

Neuronal cell line
Neuron-specific gene (Grant, A.L. (52) 323)

Neuronal culture
Transport; Amino-acid neurotransmitter; Glycine (Poyatos, I. (49) 63)

Sodium channel; β_1 subunit; $\alpha\beta_1$ complex; Hippocampus; Postnatal development; Internalization (Alcaraz, G. (51) 143)

Electrophoretic mobility shift assay; Gene regulation (Korhonen, P. (52) 330)

Neuronal differentiation
Tyrosine hydroxylase; DNA methylation; Bisulfite sequencing; cAMP response element binding protein; DNA–protein interaction; Gene silencing; Transcriptional regulation (Okuse, K. (46) 197)

Protein tyrosine phosphatase; Protein tyrosine phosphatase ε; PC12D cell; Neural function; Development of cerebellum; In situ (Mukouyama, Y. (50) 230)

Neuronal nitric oxide synthase
Fimbria-fornix; Inducible transcription factor; Mamillo-thalamic tract; Medial forebrain bundle (Brecht, S. (48) 7)

Neuronal plasticity
Traumatic brain injury; Lateral fluid percussion; Brain-derived neurotrophic factor; Neurotrophin-3; Hybridization, in situ (Hicks, R.R. (48) 401)

PKCα; PKCβ; PKCγ; PKCδ; Temporal lobe epilepsy; mRNA (Guglielmetti, F. (49) 188)

Neuron-restrictive promoter
Calretinin gene; Luciferase transfection; Embryonic mouse brain primary culture (Strauss, K.I. (49) 175)

Neuron-specific gene
Neuronal cell line (Grant, A.L. (52) 323)

Neuron-specific gene expression
Transgenic mouse; $GABA_A$ receptor; Primary culture; Transfection (Lüscher, B. (51) 197)

Neuropathic pain
Dorsal root ganglion; Nerve injury; RT-PCR; *SCN10A*; α-SNS; Voltage-gated sodium channel; Hyperalgesia (Oaklander, A.L. (52) 162)

Neuropeptide
Gene regulation; Estrogen; Cloning (Corness, J.D. (47) 11)

L-DOPA treatment; Dopamine; mRNA expression; Neostriatum (Salin, P. (47) 311)

Leech; Egg-laying hormone; Phylogeny (Salzet, M. (49) 211)

Annelid; Leech; Prodynorphin; Sequence; Opioid; Phylogeny (Salzet, M. (52) 46)

Neuropeptide gene expression
MCH; NEI; Chromosome 12q23; Hypothalamus; Thymus; Brown adipose tissue; Differential processing (Viale, A. (46) 243)

Neuropeptide Y
Norepinephrine transporter; Tyrosine hydroxylase; Dopamine β-hydroxylase; Hybridization, in situ; Medulla oblongata; Brainstem; Rabbit (Pau, K.-Y.F. (48) 367)

Synthesis regulation; Chromogranin A; Chromogranin B; Secretogranin II; Enkephalin; Kainic acid; Epilepsy (Tsunashima, K. (51) 42)

Neuropeptide Y receptor
Hybridization, in situ; Rat; Hippocampus; Hypothalamus; Trigeminal ganglion (Gustafson, E.L. (46) 223)

Neuropeptide Y Y_1 receptor
In situ hybridization; Receptor autoradiography; Rat brain; Ontogenesis (Tong, Y. (48) 323)

Neuroprotection
hNT cell; β-Amyloid peptide; Alzheimer's disease; Transforming growth factor-β; TGF-β type II receptor (Ren, R.F. (48) 315)

Amyloid protein precursor (APP); Rabbit spinal cord; Reversible ischemia; Irreversible ischemia; Stress-induced protein; Cell death (Komori, N. (49) 103)

Hypoxic-ischemia; Cyclooxygenase-2; Programmed cell death; Stroke; Microglia (Walton, M. (50) 165)

Neurorescue
Deprenyl; MDL72974; Tyrosine hydroxylase; Monoamine oxidase; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Thiffault, C. (44) 238)

Neurosteroid
Ethanol; Propofol; Glycine; *Xenopus* oocyte; Long-sleep mouse; Genetics (Mascia, M.P. (45) 169)

$GABA_A$ receptor; THDOC; Pregnenolone sulfate; Phosphorylation; PKC; Phorbol esters; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

Neurotensin
Cocaine; mRNA; Nucleus accumbens; Shell; Striatum; Hybridization, in situ; Rat (Betancur, C. (44) 334)

Receptor; Binding; Mutagenesis; Charged amino acid (Botto, J.-M. (46) 311)

c-*fos*; Haloperidol; Immediate-early gene; Striatum; Knockout mouse; Gene expression regulation (Shearman, L.P. (47) 275)

Melanin-concentrating hormone; Tyrosine hydroxylase; mRNA stability; Gene transcription; Lithium; Glucocorticoids; PC12 cells (Presse, F. (52) 270)

Neurotransmission
Cochlea; Dopamine; Dopamine receptors; Quantitative competitive PCR (Karadaghy, A.A. (44) 151)

Acetylcholinesterase; cAMP-dependent protein kinase A; Non-consensus phosphorylation site; Protein phosphorylation (Grifman, M. (51) 179)

Neurotransporter
Seizure; Locus coeruleus; Substantia nigra; Ventral tegmentum area; Pentylenetetrazol; c-*fos* (Szot, P. (44) 46)

Neurotrimin
AvGp50; Axonally expressed; Immunoglobulin superfamily; Opioid binding cell adhesion molecule (OB-CAM); Limbic system-associated membrane protein (LAMP) (Hancox, K.A. (44) 273)

Neurotrophic
Brain-derived neurotrophic factor; Transcription regulation; Calcium; C6 glioma cell (Bishop, J.F. (50) 154)

Neurotrophic activity
Amyloid precursor protein; Nerve growth factor; Growth factor potentiation (Wallace, W.C. (52) 201)

Amyloid precursor protein; Nerve growth factor; Insulin receptor substrate-1; Tyrosine phosphorylation; Growth factor potentiation (Wallace, W.C. (52) 213)

Neurotrophic factor
Astrogliosis; Senile plaque; β-Amyloid protein; Neurodegeneration (Connor, B. (49) 283)

Neurotrophin
Epilepsy; Development; Hybridization, in situ; Electroencephalogram; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Astrocyte; HEK293 cell; Transfection; Cell-free RNA decay; mRNA half-life; RNA-binding protein (Tang, B. (46) 118)

trkC; Brain-derived neurotrophic factor; Memory; Immediate-early gene (Dragunow, M. (46) 274)

Ginsenoside; Cholinergic; Basal forebrain; Hippocampus; Hybridization, in situ (Salim, K.N. (47) 177)

Hybridization, in situ; TrkA; TrkB; TrkC; VGF (Snyder, S.E. (49) 307)

Diabetic neuropathy; trkA; Sensory neuron; NGF receptor (Delcroix, J.-D. (51) 82)

Neurotrophin-3
Traumatic brain injury; Lateral fluid percussion; Brain-derived neurotrophic factor; Hybridization, in situ; Neuronal plasticity (Hicks, R.R. (48) 401)

Neurotrophin-3 (NT-3)
Ethylcholine aziridinium (AF64A); Brain-derived neurotrophic factor (BDNF); Cholinergic basal forebrain; Nerve growth factor (NGF); Septohippocampal pathway; Choline acetyltransferase (ChAT) (Hellweg, R. (45) 177)

Neurotrophin receptor
NGF; BDNF; Pituitary gland; Thyroid hormone; Rat (Calzà, L. (51) 60)

NF-1
Neurofilament; Transcription, in vitro; SP1; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (48) 305)

NF-κB
AP-1; Glucocorticoid; IκB; Oxidative stress (Unlap, M.T. (45) 83)

Cerebral ischemia; Rat; Hippocampus; Apoptosis; Ischemia; Neurodegeneration (Clemens, J.A. (48) 187)

Lithium; Bipolar disorder; Transcription factor; AP-1; Cholinergic stimulation (Jope, R.S. (50) 171)

NGF
BDNF; Neurotrophin receptor; Pituitary gland; Thyroid hormone; Rat (Calzà, L. (51) 60)

NGFI-A
Glutamate receptor; NMDAR-1; Early growth response (EGR); Transcription; Pentylenetetrazol (Jensen, P.J. (44) 157)

Brain; Immediate-early gene; Rat; Sleep; Sleep deprivation; Wakefulness; Zif/268 (Pompeiano, M. (46) 143)

Human choline acetyltransferase; Promoter; Transactivation; NGFI-C; AP2 dbcAMP (Quirin-Stricker, C. (49) 165)

NGFI-C
Human choline acetyltransferase; Promoter; Transactivation; NGFI-A; AP2 dbcAMP (Quirin-Stricker, C. (49) 165)

NGF receptor
Tellurium; Demyelination; Macrophage; Peripheral neuropathy (Toews, A.D. (49) 113)

Diabetic neuropathy; trkA; Sensory neuron; Neurotrophin (Delcroix, J.-D. (51) 82)

NG108-115 neuroblastoma × glioma hybrid cell line
Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line (Schelman, W.R. (48) 197)

Nick translation, in situ
Kainic acid; Transgenic mice; Superoxide dismutase; Free radical; Hippocampus (Hirata, H. (48) 145)

Nicotinic
Neuronal; κ-Bungarotoxin; Adenovirus; Recombinant; Acetylcholine; Oocyte (Gorman, S. (44) 143)

Nicotinic acetylcholine receptor
Torpedo; Lysophosphatidylcholine; Lysophosphatidylethanolamine; Protein kinase C; Voltage-clamp (Ikeuchi, Y. (45) 317)

α3-Subunit; Development; Ventral cochlear nucleus; Trigeminal nucleus; Facial nucleus (Morley, B.J. (48) 407)

Glutamate receptor; Retinal ganglion cell; Hybridization, in situ; Gene expression (Hoover, F. (51) 123)

Nicotinic receptor
Acetylcholine receptor; Immunocytochemistry; Hypothalamus; Rat (Shioda, S. (47) 45)

Nitric oxide
Monocyte; Macrophage; Microglia; Astrocyte; Vitamin D; Calcitriol; Brain; Glial cell; Free radical; Inflammation; Cytokine (Garcion, E. (45) 255)

Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Nitric oxide synthase; Carbon monoxide; Heme oxygenase interleukin-1β; Hypothalamus (Jacobs, R.A. (49) 238)

Nitric oxide synthase
Stab-lesion; Cerebellum; Purkinje cell; Glutamic acid decarboxylase; NADPH-diaphorase histochemistry; Hybridization, in situ (Shigeyoshi, Y. (44) 229)

Spontaneous hypertension; Hypothalamus; Paraventricular nucleus; Sympathetic nervous system; Polymerase chain reaction; Hybridization, in situ (Plochocka-Zulinska, D. (48) 291)

Nitric oxide; Carbon monoxide; Heme oxygenase interleukin-1β; Hypothalamus (Jacobs, R.A. (49) 238)

Growth factor; PC12 cell; Enzyme induction; Polyclonal antiserum (Macduff Sheehy, A. (52) 71)

NK-1
Preprotachykinin; Gene expression; RNase protection assay; Hypothalamus; Estrous cycle; Rat (Gautreau, A. (49) 157)

NMDA
Supraoptic nucleus; Hypothalamus; Glutamate; mRNA; NR1; NR2; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

Glutamate; Receptor; Antibody; Glycosylation; Hybridization, in situ; mRNA; Rat brain (Ciabarra, A.M. (46) 85)

NMDAR-1
Glutamate receptor; NGFI-A; Early growth response (EGR); Transcription; Pentylenetetrazol (Jensen, P.J. (44) 157)

NMDA receptor
AP-1; Striatum; Transcription factor; Nerve growth factor (Hollen, K.M. (47) 31)

Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Glycine transporter; Release; Sarcosine (Sakata, K. (49) 89)

NMDA receptor channel
$\epsilon 1$ subunit; $\zeta 1$ subunit; Inducible expression; CHO cell; Drug screening system; Intracellular Ca^{2+} elevation; LDH activity (Uchino, S. (44) 1)

NMDAR1 receptor
Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

NMDAR2 subunit
Mouse monoclonal antibody; Immunoblot; Brain expression; Development; Rat subunit; Mouse subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

NMDAR1 / $\zeta 1$
Circadian clock; Suprachiasmatic nucleus; cAMP response element binding protein; DNA binding; c-AMP-responsive element; Electromobility shift assay (Kako, K. (44) 39)

***N*-methyl-D-aspartate**
Ion channel; *Xenopus* oocyte; Voltage-clamp; Diethylpyrocarbonate (Gray, A.T. (52) 157)

Nociceptin / orphanin FQ
Nociceptin/orphanin FQ receptor; GIRK channel; Opioid receptor; Coupling; CA3; *Xenopus* oocyte; Hybridization, in situ (Ikeda, K. (45) 117)

Nociceptin / orphanin FQ receptor
GIRK channel; Nociceptin/orphanin FQ; Opioid receptor; Coupling; CA3; *Xenopus* oocyte; Hybridization, in situ (Ikeda, K. (45) 117)

Nociception
c-*fos*; mRNA expression; Prostaglandin; Cyclooxygenase; Mofezolac; NS-398; Nonsteroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

Nodose sensory neuron
Gene transfer; Adenovirus; Green fluorescent protein; Rat (Meyrelles, S.S. (51) 33)

Non-consensus phosphorylation site
Acetylcholinesterase; Neurotransmission; cAMP-dependent protein kinase A; Protein phosphorylation (Grifman, M. (51) 179)

Non-GABAergic neuron
Hybridization histochemistry, in situ; GABAergic neuron (Yasumi, M. (44) 205)

Non-NMDA receptor
AMPA receptor; Agonal state; Alternative splicing; Human brain; mRNA; Schizophrenia (Eastwood, S.L. (44) 92)

Non-receptor serine / threonine kinase
LIM motif; Hybridization histochemistry, in situ; Differential gene expression; Developing nervous system (Mori, T. (45) 247)

Non-steroidal anti-inflammatory drug
c-*fos*; mRNA expression; Prostaglandin; Cyclooxygenase; Nociception; Mofezolac; NS-398 (Kusuhara, H. (52) 151)

Noradrenaline
In situ hybridization histochemistry; Tyrosine hydroxylase mRNA; Dopamine; Substantia nigra; Ventral tegmental area; Locus coeruleus; Methamphetamine (Shishido, T. (52) 146)

Norepinephrine
Dopamine; Monoamine oxidase inhibitor; Respiratory chain; Mechanism; Enzyme regulation; Superoxide dismutase; L-Deprenyl (Thiffault, C. (49) 127)

Norepinephrine transporter
Tyrosine hydroxylase; Neuropeptide Y; Dopamine β-hydroxylase; Hybridization, in situ; Medulla oblongata; Brainstem; Rabbit (Pau, K.-Y.F. (48) 367)

PC12 cell; Rat; Cloning; Glycosylation; Protein kinase C; Casein kinase II; Transfection (Brüss, M. (52) 257)

Norepinephrine transporter (NET)
Catecholamine (CA); Biogenic amine; Serotonin transporter (SERT); Dopamine transporter (DAT) (Padbury, J.F. (45) 163)

Northern analysis
R-nurr1; Hybridization, in situ; Electroconvulsive seizure; Amygdala kindling (Xing, G. (47) 251)

Calcium homeostasis; Ion transport; Brain; Digoxin-labeled cDNA; Gene expression; NCX (Yu, L. (50) 285)

Northern and dot-blot analyses
Opiate addiction; Morphine dependence; Morphine abstinence syndrome; α_{2a}-Adrenoceptor mRNA; Rat brain (Busquets, X. (45) 154)

Northern blot
mRNA; Mitochondria; Oxidative phosphorylation; Energy metabolism; Cerebral cortex; Brain; Alzheimer disease (Chandrasekaran, K. (44) 99)

Cannabinoid receptor binding; Cannabinoid receptor mRNA levels; Δ^9-Tetrahydrocannabinol; Autoradiography (Romero, J. (46) 100)

Northern blot hybridization
Hybridization, in situ; Development (Olenik, C. (44) 83)

Rho GTPase; In situ hybridization; Western blot; Neuron; Brain (Olenik, C. (52) 263)

iNOS
Glia; Cultures; Ibuprofen; Neurodegenerative disorder (Stratman, N.C. (50) 107)

Novel gene
Cochlea cDNA library; Systematic sequencing; RT-PCR; Hybridization, in situ; pCO8; dr1 (Soto-Prior, A. (47) 1)

Noxious stimulation
K*rev*-1/*rap* 1A; *Rap* 1B; H-*ras*; Gene expression; Spinal cord (Urayama, O. (45) 331)

NR1
Supraoptic nucleus; Hypothalamus; Glutamate; mRNA; NMDA; NR2; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

NR2
Supraoptic nucleus; Hypothalamus; Glutamate; mRNA; NMDA; NR1; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

NS-398
c-*fos*; mRNA expression; Prostaglandin; Cyclooxygenase; Nociception; Mofezolac; Nonsteroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

NSE promoter
Plasmid DNA; LacZ; GFAP promoter; HCMV promoter (Hannas-Djebbara, Z. (46) 91)

hNT cell
β-Amyloid peptide; Alzheimer's disease; Neuroprotection; Transforming growth factor-β; TGF-β type II receptor (Ren, R.F. (48) 315)

Nuclear protein
F3; Axonal glycoprotein; Cell adhesion; Immunoglobulin superfamily; Neural-specific promoter; Transmembrane signalling (Cangiano, G. (48) 279)

Nuclear run-off assay
Benzodiazepine tolerance; Benzodiazepine receptor; Ligand-gated ion-channel; Gene regulation (Holt, R.A. (48) 164)

Nuclease resistance
Antisense oligodeoxynucleotide; End-capped phosphorothioate; Gene suppression (Hebb, M.O. (47) 223)

Nucleotide sequence
HCNP precursor protein; Promoter; S1 mapping; Enhancer; CAT assay; Electrophoresis mobility shift assay; Gene expression (Tohdoh, N. (45) 24)

Nucleus accumbens
Cocaine; Neurotensin; mRNA; Shell; Striatum; Hybridization, in situ; Rat (Betancur, C. (44) 334)

Basal nucleus of Meynert; Excitotoxicity; Flip; Flop; Globus pallidus; Glutamate receptor; Striatum (Tomiyama, M. (46) 281)

Dopamine transporter; Ovariectomy; Estradiol; Striatum; Substantia nigra; Ventral tegmental area; In situ hybridization (Bossé, R. (46) 343)

Glutamate; Hybridization, in situ; Schizophrenia; Antipsychotics (Healy, D.J. (47) 331)

Serotonin; Tropane; Preprodynorphin; Preproenkephalin; Cocaine; Fluoxetine; Striatum (Daunais, J.B. (50) 293)

Nucleus of the solitary tract
Area postrema; Pancreatic polypeptide; Gut–brain axis; Drinking; Feeding (Larsen, P.J. (48) 1)

nur77
Circadian rhythm; Suprachiasmatic nucleus; Immediate-early gene; *zif268* (Lin, J.T. (46) 303)

O

Obesity
Hypothalamus; Supraoptic nucleus; Paraventricular nucleus; Vasopressin; Oxytocin; Neural plasticity (Fetissov, S. (50) 314)

Octreotide
Somatostatin; Receptor; Proliferation; Endopeptidase-24.11; Meningeal cell; Fibroblast (Feindt, J. (44) 293)

Oct-2 transcription factor
Synaptic protein; SNAP-25; Synapsin I; Transcriptional control (Deans, Z.C. (51) 1)

β-ODAP
GLAST; Sodium-dependent transporter; Oocyte; *Xenopus*; Neurolathyrism; *Lathyrus* toxin; β-(Isoxazolin-5-on-4-yl)-L-alanine (Kusama-Eguchi, K. (52) 166)

8-OH-DPAT
Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Serotonin 1A receptor; Mouse; Adrenalectomy; Corticosterone (Meijer, O.C. (46) 290)

Olfaction
IP_3 receptor; Gene expression; Alternate splicing; Signal transduction; Sensory epithelium; Secretion; Calcium channel (Smutzer, G. (44) 347)

Olfactory receptor; Signal transduction; GTP-binding protein; Cyclic adenosine 3′:5′-monophosphate; Functional expression; Melanophore; Molecular sequence data (McClintock, T.S. (48) 270)

Olfactory bulb
GABA transporter; Hybridization, in situ; Gene expression (Nishimura, M. (45) 268)

Olfactory memory
Maternal behavior; c-*fos*; Sheep; Parturition; Vaginocervical stimulation; *zif*/268 (Da Costa, A.P.C. (46) 63)

Olfactory receptor
Olfaction; Signal transduction; GTP-binding protein; Cyclic adenosine 3′:5′-monophosphate; Functional expression; Melanophore; Molecular sequence data (McClintock, T.S. (48) 270)

Oligodendrocyte
Myelin; Monomeric GTP-binding protein; Signalling (Burcelin, R. (50) 9)

Oligodendroglia
Vasopressin receptor; RT-PCR; Neuron; Astroglia; mRNA; Cerebral cortex; Learning and memory (Yamazaki, R.S. (45) 138)

Ontogenesis
Neuropeptide Y Y_1 receptor; In situ hybridization; Receptor autoradiography; Rat brain (Tong, Y. (48) 323)

Ontogeny
Phosphatidylinositol transfer protein; Brain; Hybridization, in situ (Utsunomiya, A. (45) 349)

Fatty acid transport protein; Fatty acid translocase; Brain; In situ hybridization (Utsunomiya, A. (46) 217)

Tyrosine hydroxylase; mRNA; Locus coeruleus; Dendrite; Immunoautoradiography; Topology (Bezin, L. (50) 23)

Oocyte
Opioid; Cystic fibrosis transmembrane conductance regulator; Cysistic fibrosis; Cyclic AMP; G protein; *Xenopus*; Adenylyl cyclase (Wotta, D.R. (44) 55)

Neuronal; κ-Bungarotoxin; Adenovirus; Recombinant; Acetylcholine; Nicotinic (Gorman, S. (44) 143)

Dopamine; Dopamine receptor; G-protein; Inward rectifier; Kir3; Potassium channel (Nelson, C.S. (46) 185)

GLAST; Sodium-dependent transporter; *Xenopus*; Neurolathyrism; *Lathyrus* toxin; β-(Isoxazolin-5-on-4-yl)-L-alanine; β-ODAP (Kusama-Eguchi, K. (52) 166)

Opiate addiction
Morphine dependence; Morphine abstinence syndrome; α_{2a}-Adrenoceptor mRNA; Northern and dot-blot analyses; Rat brain (Busquets, X. (45) 154)

Opiate tolerance
Synapsin II; Morphine; In situ hybridization; Reverse transcriptase-polymerase chain reaction (RT-PCR); Regional distribution (Matus-Leibovitch, N. (45) 301)

Opioid
Cystic fibrosis transmembrane conductance regulator; Cysistic fibrosis; Cyclic AMP; G protein; Oocyte; *Xenopus*; Adenylyl cyclase (Wotta, D.R. (44) 55)

Arcuate nucleus; Digoxigenin; Hypothalamus; ISHH; Parity; POMC; Pregnancy (Mann, P.E. (46) 9)

Dynorphin; Solution hybridization; Hunger; Diabetes (Berman, Y. (46) 25)

Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; μ-Opioid receptor; Estrogen; Progesterone (Petersen, S.L. (52) 32)

Annelid; Leech; Prodynorphin; Neuropeptide; Sequence; Phylogeny (Salzet, M. (52) 46)

Opioid binding cell adhesion molecule (OB-CAM)
AvGp50; Axonally expressed; Immunoglobulin superfamily; Limbic system-associated membrane protein (LAMP); Neurotrimin (Hancox, K.A. (44) 273)

Opioidergic transcriptional mechanisms
Activating transcription factor; Cyclic AMP response element-binding protein; Brainstem; Enkephalin; Pain (Hermanson, O. (51) 188)

Opioid excitatory effect
Opioid receptor; δ-Opioid receptor; GM1 ganglioside; Adenylyl cyclase; Cyclic AMP; GM1 modulation of opioid receptors (Wu, G. (44) 341)

Opioid receptor
δ-Opioid receptor; GM1 ganglioside; Opioid excitatory effect; Adenylyl cyclase; Cyclic AMP; GM1 modulation of opioid receptors (Wu, G. (44) 341)

Nociceptin/orphanin FQ receptor; GIRK channel; Nociceptin/orphanin FQ; Coupling; CA3; *Xenopus* oocyte; Hybridization, in situ (Ikeda, K. (45) 117)

AP-1; Electrophoretic mobility-shift assay; Transcriptional regulation; Down-regulation; Up-regulation (Tencheva, Z.S. (48) 156)

δ-Opioid receptor; κ-Opioid receptor; Polymerase chain reaction; G-protein-coupled receptor; Brain; Immune cells (Gavériaux-Ruff, C. (48) 298)

δ-Opioid receptor
Opioid receptor; GM1 ganglioside; Opioid excitatory effect; Adenylyl cyclase; Cyclic AMP; GM1 modulation of opioid receptors (Wu, G. (44) 341)

Antinociception; Antisense oligodeoxynucleotides; [D-Ala^2]deltorphin II; mRNA; Supraspinal (Lee, C.E. (48) 17)

Opioid receptor; κ-Opioid receptor; Polymerase chain reaction; G-protein-coupled receptor; Brain; Immune cells (Gavériaux-Ruff, C. (48) 298)

κ-Opioid receptor
Cocaine; Preprodynorphin; Preproenkephalin; mRNA; Rat; Brain (Spangler, R. (44) 139)

Opioid receptor; δ-Opioid receptor; Polymerase chain reaction; G-protein-coupled receptor; Brain; Immune cells (Gavériaux-Ruff, C. (48) 298)

μ-Opioid receptor
Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Opioid; Estrogen; Progesterone (Petersen, S.L. (52) 32)

μ-Opioid receptor binding
μ-Opioid receptor mRNA (MOR); Ribonuclease protection assay; Gene expression; Naltrexone; Morphine (Castelli, M.P. (45) 149)

δ-Opioid receptor mRNA
Ethanol; Forskolin; cAMP; Protein kinase A; Solution hybridization (Jenab, S. (47) 44)

μ-Opioid receptor mRNA (MOR)
μ-Opioid receptor binding; Ribonuclease protection assay; Gene expression; Naltrexone; Morphine (Castelli, M.P. (45) 149)

Opioid receptors
Gastrointestinal tract; μ- and κ-Opioid receptors; RNase protection assay; Immunohistochemistry (Fickel, J. (46) 1)

μ- and κ-Opioid receptors
Gastrointestinal tract; Opioid receptors; RNase protection assay; Immunohistochemistry (Fickel, J. (46) 1)

Optic nerve
Electrogenesis; Ion channel; Hybridization, in situ; mRNA; Retina; RT-PCR (Fjell, J. (50) 197)

Optic nerve crush
$InsP_4$ receptor; Retina; Hybridization, in situ; Immunocytochemistry; Trauma; Inositol 1,3,4,5-tetrakisphosphate; Ca^{2+} (Kreutz, M.R. (45) 283)

Orbitofrontal cortex
c-*fos*; Somatosensory cortex; Motor cortex; Schizophrenia; In situ hybridization (Palmer, L.C. (46) 127)

Oscillatory current response
$5\text{-}HT_{1a}$ receptor; Phosphatidylinositol; Adenylate cyclase; *Xenopus* oocyte; Plasmid vector (Ni, Y.G. (51) 115)

Osmolyte
Hypertonicity; Vasogenic edema; Blood–brain barrier (Yamashita, T. (46) 236)

Blood–brain barrier; Na^+/*myo*-inositol cotransporter (Guo, W. (51) 91)

Outbreding / inbreding
Tyrosine hydroxylase; Dopamine; Animal model; Rat strain; DNA polymorphism (Murru, S. (45) 345)

Ovariectomy
Dopamine transporter; Estradiol; Striatum; Nucleus accumbens; Substantia nigra; Ventral tegmental area; In situ hybridization (Bossé, R. (46) 343)

Oxidative phosphorylation
Northern blot; mRNA; Mitochondria; Energy metabolism; Cerebral cortex; Brain; Alzheimer disease (Chandrasekaran, K. (44) 99)

Oxidative stress
AP-1; NF-κB; Glucocorticoid; IκB (Unlap, M.T. (45) 83)

Brain derived neurotrophic factor; Cell viability; Transcription factor; DNA binding activity; Culture; Neuron; Glia (Iwata, E. (50) 213)

Global cerebral ischemia; Reperfusion injury; Redox regulation; APE; APEX; Jun; Fos; Neuronal cell death (Gillardon, F. (52) 194)

Oxytocin
Hypothalamus; Supraoptic nucleus; Paraventricular nucleus; Vasopressin; Neural plasticity; Obesity (Fetissov, S. (50) 314)

P

p24
Membrane protein; Neuron; Intracellular organelle; Dendrite (Kadota, Y. (46) 265)

PACAP
Mesencephalic trigeminal nucleus; Hybridization, in situ; Immunohistochemistry; Up-regulation; Proprioceptive neuron; Peripheral axotomy; Co-existence (Oemar Larsen, J. (46) 109)

2D-PAGE
Brain-derived neurotrophic factor (BDNF); Stathmin; Mitogen-activated protein kinase (MAPK); Phosphorylation; Nerve growth factor (NGF); Cortical neurons (Cardinaux, J.-R. (51) 220)

Pain
Activating transcription factor; Cyclic AMP response element-binding protein; Brainstem; Opioidergic transcriptional mechanisms; Enkephalin (Hermanson, O. (51) 188)

uPA mRNA and PAI-1 mRNA in mouse brain
Urokinase-type plasminogen activator; Plasminogen activator inhibitor-1; Kainic acid; Limbic structure; Brain blood vessel; Stroke risk; Hypothalamus (Masos, T. (47) 157)

Pancreatic polypeptide
Nucleus of the solitary tract; Area postrema; Gut–brain axis; Drinking; Feeding (Larsen, P.J. (48) 1)

Parafollicular cell
Glucocorticoid; Serotonin; Melatonin; Tryptophan hydroxylase; Thyroid C cell; Competitive RT-PCR (Clark, M.S. (48) 346)

Paraneoplastic neurological syndrome
Unc-33-like cDNA; Gene expression; Brain specificity; Anti-CV2-autoantibody (Quach, T.T. (46) 329)

Paraventricular nucleus
Corticotropin-releasing hormone; Receptor; Lipopolysaccharide; Glucocorticoid (Makino, S. (47) 170)

Corticotropin-releasing hormone; Aging process; Dehydroepiandrosterone; Hybridization, in situ; Gene expression; Rat (Givalois, L. (48) 107)

Nitric oxide synthase; Spontaneous hypertension; Hypothalamus; Sympathetic nervous system; Polymerase chain reaction; Hybridization, in situ (Plochocka-Zulinska, D. (48) 291)

Hypothalamus; Supraoptic nucleus; Vasopressin; Oxytocin; Neural plasticity; Obesity (Fetissov, S. (50) 314)

Parity
Arcuate nucleus; Digoxigenin; Hypothalamus; ISHH; Opioid; POMC; Pregnancy (Mann, P.E. (46) 9)

Parkinson
Preproenkephalin; MPTP monkey; Dopamine agonist; L-DOPA; Caudate-putamen; Hybridization, in situ (Morissette, M. (49) 55)

Parkinson's
Transcription; DNA–protein interaction; Aging; Neurodegenerative disease; Huntington's; Motor control; Striatum (Chernak, J.M. (44) 113)

Parkinson's disease
Tyrosinase; RT-PCR; Substantia nigra; Gene expression; RNA (Xu, Y. (45) 159)

Intracerebral grafting; Embryonic ventral mesencephalon; Dopamine agonist; Animal model (Cenci, M.A. (48) 149)

Basal ganglion; GABAergic transmission; Rat (Caruncho, H.J. (48) 243)

Somatostatin; Basal ganglia; Hybridization, in situ; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Medial medullary lamina (Eve, D.J. (50) 59)

Parturition
Maternal behavior; c-*fos*; Sheep; Olfactory memory; Vaginocervical stimulation; *zif/*268 (Da Costa, A.P.C. (46) 63)

Patch-clamp
Acute cell isolation; Reverse transcription-polymerase chain reaction (RT-PCR); AMPA receptor; Glial cell; Hippocampus (Seifert, G. (47) 286)

Pathway
Cytokine; Cytokine receptor; IL-6; gp130; JAK; Trigeminal ganglion (Mizuno, M. (44) 163)

PC12
Tyrosine hydroxylase; CRE; Protein kinase A; Adenosine receptor; Transcriptional regulation (Chae, H.-D. (44) 31)

Glutathione peroxidase; ROS; MPTP; MA; Dopaminergic (Hom, D.G. (46) 154)

PC12 cells
Menkes ATPase; Copper homeostasis; RT-PCR; C6 glioma cell (Qian, Y. (48) 60)

Etoposide; Apoptosis; DNA fragmentation; Programmed cell death; Nerve growth factor (NGF) (Saura, J. (48) 382)

Fibroblast growth factor; Tyrosine hydroxylase; Transcription; AP-1; Nerve growth factor (Osaka, H. (49) 222)

Adenovirus; Gene transfer; Functional expression; AMPA receptor channel; GluR1; GluR2 (Sudo, M. (50) 91)

Nitric oxide synthase; Growth factor; Enzyme induction; Polyclonal antiserum (Macduff Sheehy, A. (52) 71)

Norepinephrine transporter; Rat; Cloning; Glycosylation; Protein kinase C; Casein kinase II; Transfection (Brüss, M. (52) 257)

Melanin-concentrating hormone; Tyrosine hydroxylase; Neurotensin; mRNA stability; Gene transcription; Lithium; Glucocorticoids (Presse, F. (52) 270)

PC12D cell
Protein tyrosine phosphatase; Protein tyrosine phosphatase ϵ; Neuronal differentiation; Neural function; Development of cerebellum; In situ (Mukouyama, Y. (50) 230)

P19 cell line
Neural differentiation; Embryonal carcinoma; Neurofilament; Gene expression; Cell differentiation (Paterno, G.D. (49) 247)

PC12W pheochromocytoma cell line
Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Receptor signalling; Nitric oxide; cGMP; Neuron; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Pentobarbital
Brain irradiation; Gene expression; c-*fos*; *junB*; Glucocorticoid (Hong, J.-H. (48) 223)

Pentylenetetrazol
Seizure; Locus coeruleus; Substantia nigra; Ventral tegmentum area; c-*fos*; Neurotransporter (Szot, P. (44) 46)

Glutamate receptor; NMDAR-1; NGFI-A; Early growth response (EGR); Transcription (Jensen, P.J. (44) 157)

Seizure-related gene; PTZ-17; Calcium entry; Seizure susceptibility; 3′-Untranslated region; Post-transcriptional regulation; Mouse strain (Kajiwara, K. (47) 49)

PEP-19
Cerebellum; Purkinje cell; Retinal bipolar neuron; Dendrite; Bax (Vassileva, G. (46) 333)

Peptide library
Synapsin; Synaptic vesicle; Protein kinase A; CaM kinase II; SH3 domain; Actin; Monoclonal antibody; Epitope mapping (Vaccaro, P. (52) 1)

Peptide pheromone
Invertebrate; Pheromonal attraction; Albumen gland (Fan, X. (48) 167)

Peripheral axotomy
PACAP; Mesencephalic trigeminal nucleus; Hybridization, in situ; Immunohistochemistry; Up-regulation; Proprioceptive neuron; Co-existence (Oemar Larsen, J. (46) 109)

Peripheral nervous system
Fibroblast growth factor-2; Competitive RT-PCR; Reinnervation; Lung; Schwann cell (Shimada, J. (49) 295)

Peripheral neuropathy
Tellurium; Demyelination; Macrophage; NGF receptor (Toews, A.D. (49) 113)

Phencyclidine
LSD; Schizophrenia; Aromatic L-amino acid decarboxylase; Dopa decarboxylase; Candidate gene (Buckland, P.R. (49) 266)

Phenserine
Receptor, muscarinic; DFP; In vivo (Haroutunian, V. (46) 161)

Phenylethanolamine *N*-methyltransferase (PNMT)
Adrenergic expression; Transcriptional control; Sodium butyrate; Dexamethasone; Synergistic activation (Ebert, S.N. (47) 24)

Pheromonal attraction
Peptide pheromone; Invertebrate; Albumen gland (Fan, X. (48) 167)

Phorbol esters
$GABA_A$ receptor; Neurosteroid; THDOC; Pregnenolone sulfate; Phosphorylation; PKC; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

Phorbol 12-myristate 13-acetate
Dopamine β-hydroxylase; Cyclic AMP response element; Protein kinase C; SK-N-BE(2)C cell (Kim, J.-S. (51) 154)

Phosducin
Arrestin; Pinealocyte; Brain; Transgenic mouse; β-Gal expression (Sunayashiki-Kusuzaki, K. (52) 112)

Phosphatidylinositide
Aging; Striatum; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate receptor mRNA; Inositol 1,4,5-trisphosphate 3-kinase; Inositol 1,4,5-trisphosphate 5-phosphatase (Igwe, O.J. (46) 39)

Phosphatidylinositol
$5\text{-}HT_{1a}$ receptor; Oscillatory current response; Adenylate cyclase; *Xenopus* oocyte; Plasmid vector (Ni, Y.G. (51) 115)

Phosphatidylinositol transfer protein
Brain; Ontogeny; Hybridization, in situ (Utsunomiya, A. (45) 349)

Phosphatidylinositol transfer proteins α and β (PI-TPα and PI-TPβ)
mRNA expression; Rat brain; Hybridization, in situ; Signal transduction; Secretion (Imai, H. (46) 256)

Phosphoinositide hydrolysis
Galanin; Receptor; G-protein; Pituitary; Hybridization, in situ (Fathi, Z. (51) 49)

Phosphorylated tau
Apoptosis; Excitotoxicity; Serum deprivation; Primary neuronal culture (Lesort, M. (45) 127)

Phosphorylation
α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid type glutamate receptor; Post-synaptic density; Excitatory amino acid; Calcium/calmodulin-dependent protein kinase; Synaptic plasticity (Hayashi, Y. (46) 338)

ACh receptor; Lysophosphatidic acid; G-protein; Protein kinase C; Site-directed mutagenesis; Voltage clamp (Nishizaki, T. (50) 121)

Brain-derived neurotrophic factor (BDNF); Stathmin; Mitogen-activated protein kinase (MAPK); 2D-PAGE; Nerve growth factor (NGF); Cortical neurons (Cardinaux, J.-R. (51) 220)

$GABA_A$ receptor; Neurosteroid; THDOC; Pregnenolone sulfate; PKC; Phorbol esters; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

Photoaffinity
Cerebral ischemia; Glutamine synthetase; Ca ATPase; Striatum; Hippocampus (Sankaran, B. (47) 237)

Photoreceptor
Retina; Recoverin; Cyclic rhythm (Wiechmann, A.F. (45) 321)

Cyclic nucleotide-gated channel; Splice variant; Pineal gland; Glutamic acid-rich protein; Brain (Sautter, A. (48) 171)

Phrenic
Muscle activation history; Soleus; Extensor digitorum longus; Tensor fascia latae motor pool (Blanco, C.E. (44) 253)

Phylogeny
Leech; Egg-laying hormone; Neuropeptide (Salzet, M. (49) 211)

Annelid; Leech; Prodynorphin; Neuropeptide; Sequence; Opioid (Salzet, M. (52) 46)

Pilocarpine
Epilepsy; Neurotrophin; Development; Hybridization, in situ; Electroencephalogram; Kainic acid; Brain derived neurotrophic factor; Seizure; Brain (Kornblum, H.I. (44) 219)

Pineal gland
Cyclic nucleotide-gated channel; Splice variant; Glutamic acid-rich protein; Photoreceptor; Brain (Sautter, A. (48) 171)

Pinopsin; Immunocytochemistry; Circadian clock; Chicken red; Chicken (Okano, T. (50) 190)

Pinealocyte
Arrestin; Phosducin; Brain; Transgenic mouse; β-Gal expression (Sunayashiki-Kusuzaki, K. (52) 112)

Pinopsin
Immunocytochemistry; Circadian clock; Chicken red; Pineal gland; Chicken (Okano, T. (50) 190)

Pituitary
Galanin; Gene expression; Hypothalamus; Thyroid hormone (Hooi, S.C. (51) 15)

Galanin; Receptor; G-protein; Phosphoinositide hydrolysis; Hybridization, in situ (Fathi, Z. (51) 49)

Pituitary gland
NGF; BDNF; Neurotrophin receptor; Thyroid hormone; Rat (Calzà, L. (51) 60)

PKC
$GABA_A$ receptor; Neurosteroid; THDOC; Pregnenolone sulfate; Phosphorylation; Phorbol esters; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

PKC α
PKC β; PKC γ; PKC δ; Temporal lobe epilepsy; Neuronal plasticity; mRNA (Guglielmetti, F. (49) 188)

PKC β
PKC α; PKC γ; PKC δ; Temporal lobe epilepsy; Neuronal plasticity; mRNA (Guglielmetti, F. (49) 188)

PKC δ
PKC α; PKC β; PKC γ; Temporal lobe epilepsy; Neuronal plasticity; mRNA (Guglielmetti, F. (49) 188)

PKC γ
PKC α; PKC β; PKC δ; Temporal lobe epilepsy; Neuronal plasticity; mRNA (Guglielmetti, F. (49) 188)

Plasma membrane calcium ATPase
Calcium homeostasis; Hippocampus; Hybridization, in situ; Neuronal cell death (Zacharias, D.A. (45) 173)

Cell death; Kainic acid; Seizure; Hippocampus; mRNA; Glutamate (Garcia, M.L. (45) 230)

Plasmid DNA
LacZ; GFAP promoter; NSE promoter; HCMV promoter (Hannas-Djebbara, Z. (46) 91)

Plasmid vector
$5\text{-}HT_{1a}$ receptor; Oscillatory current response; Phosphatidylinositol; Adenylate cyclase; *Xenopus* oocyte (Ni, Y.G. (51) 115)

Plasminogen activator inhibitor-1
Urokinase-type plasminogen activator; uPA mRNA and PAI-1 mRNA in mouse brain; Kainic acid; Limbic structure; Brain blood vessel; Stroke risk; Hypothalamus (Masos, T. (47) 157)

Plasticity
Epilepsy; In situ hybridization; Gene expression; Voltage-dependent calcium channel; mRNA; Hippocampus; Kindling (Hendriksen, H. (50) 257)

Polyclonal antiserum
Nitric oxide synthase; Growth factor; PC12 cell; Enzyme induction (Macduff Sheehy, A. (52) 71)

Polyglutamine
Huntington's disease; Huntingtin; CAG repeat; Microtubule; Tubulin; Glyceraldehyde-3-phosphate dehydrogenase; Calmodulin (Tukamoto, T. (51) 8)

Polymerase chain reaction
Tryptophan hydroxylase; Polymorphism; Serotonin; Intron; Splicing; Linkage disequilibrium; Reverse transcription (Nielsen, D.A. (45) 145)

Receptor; Dopamine; Reverse transcription; Ribonuclease protection assay; Cocaine; Human brain; Excited delirium (Segal, D.M. (45) 335)

Nitric oxide synthase; Spontaneous hypertension; Hypothalamus; Paraventricular nucleus; Sympathetic nervous system; Hybridization, in situ (Plochocka-Zulinska, D. (48) 291)

Opioid receptor; δ-Opioid receptor; κ-Opioid receptor; G-protein-coupled receptor; Brain; Immune cells (Gavériaux-Ruff, C. (48) 298)

Polymorphism
Tryptophan hydroxylase; Serotonin; Polymerase chain reaction; Intron; Splicing; Linkage disequilibrium; Reverse transcription (Nielsen, D.A. (45) 145)

Polyploidy
Xenopus laevis; Intermediate filament; Neurofilament; Gene duplication (Gervasi, C. (48) 229)

Polysialyltransferase
mRNA; Hybridization, in situ; PSA-NCAM; Rat; Brain; Development (Wood, G.K. (51) 69)

POMC
Arcuate nucleus; Digoxigenin; Hypothalamus; ISHH; Opioid; Parity; Pregnancy (Mann, P.E. (46) 9)

Postnatal development
Sodium channel; β_1 subunit; $\alpha\beta_1$ complex; Hippocampus; Neuronal culture; Internalization (Alcaraz, G. (51) 143)

Post-synaptic density
α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid type glutamate receptor; Phosphorylation; Excitatory amino acid; Calcium/calmodulin-dependent protein kinase; Synaptic plasticity (Hayashi, Y. (46) 338)

Post-transcriptional regulation
Seizure-related gene; PTZ-17; Calcium entry; Seizure susceptibility; Pentylenetetrazol; 3′-Untranslated region; Mouse strain (Kajiwara, K. (47) 49)

Potassium channel
In situ hybridization; Cellular localization; Colocalization; Heteromultimer formation; Antisense transcripts (Verma-Kurvari, S. (46) 54)

Dopamine; Dopamine receptor; G-protein; Inward rectifier; Kir3; Oocyte (Nelson, C.S. (46) 185)

POU protein
Two-hybrid; Brain-4; hnRNP U (Malik, K.F. (45) 99)

Pregnancy
Arcuate nucleus; Digoxigenin; Hypothalamus; ISHH; Opioid; Parity; POMC (Mann, P.E. (46) 9)

Pregnenolone sulfate
$GABA_A$ receptor; Neurosteroid; THDOC; Phosphorylation; PKC; Phorbol esters; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

Preoptic area
Androgen receptor; Estrogen receptor; Gonadotrophin-releasing hormone; Luteinizing hormone; Luteinizing-releasing hormone; Male rat; mRNA (Spratt, D.P. (47) 125)

Preprodynorphin
Cocaine; Preproenkephalin; κ Opioid receptor; mRNA; Rat; Brain (Spangler, R. (44) 139)

Serotonin; Tropane; Preproenkephalin; Cocaine; Fluoxetine; Striatum; Nucleus accumbens (Daunais, J.B. (50) 293)

Preproenkephalin
Cocaine; Preprodynorphin; κ Opioid receptor; mRNA; Rat; Brain (Spangler, R. (44) 139)

Parkinson; MPTP monkey; Dopamine agonist; L-DOPA; Caudate-putamen; Hybridization, in situ (Morissette, M. (49) 55)

Serotonin; Tropane; Preprodynorphin; Cocaine; Fluoxetine; Striatum; Nucleus accumbens (Daunais, J.B. (50) 293)

Preproenkephalin mRNA
Guinea-pig; 3′ untranslated region; Translation (LaForge, K.S. (46) 169)

Preprotachykinin
NK-1; Gene expression; RNase protection assay; Hypothalamus; Estrous cycle; Rat (Gautreau, A. (49) 157)

Preprotachykinin A
Substance P; Somatostatin; Suprachiasmatic nucleus; Coexistence; Hybridization, in situ (Shigeyoshi, Y. (48) 159)

Sodium appetite; Sodium depletion; Preprotachykinin-B; Tachykinin (Pompei, P. (49) 149)

Preprotachykinin-A mRNA
SHR; WKY rat; Salt appetite (Pompei, P. (47) 78)

Preprotachykinin-B
Sodium appetite; Sodium depletion; Preprotachykinin-A; Tachykinin (Pompei, P. (49) 149)

Primary cortico-hippocampal culture
Brain-derived neurotrophic factor; Promoter; Sequence; Luciferase; Transient expression (Hayes, V.Y. (45) 189)

Primary culture
Neuron-specific gene expression; Transgenic mouse; $GABA_A$ receptor; Transfection (Lüscher, B. (51) 197)

Primary neuronal culture
Apoptosis; Excitotoxicity; Serum deprivation; Phosphorylated tau (Lesort, M. (45) 127)

Priming
6-Hydroxydopamine; Supersensitivity; Dopamine agonist; AP-1; FosB; JunD; cFos (Vallone, D. (52) 307)

Prion
Scrapie; Neurodegenerative; Genetic; Creutzfeldt–Jakob disease; Mutant; Heterozygous; Metabolism (Lehmann, S. (52) 139)

Prion protein
Amyloid; Gerstmann–Sträussler–Scheinker; *PRNP* mutation; Spinal cord (Young, K. (44) 147)

***PRNP* mutation**
Prion protein; Amyloid; Gerstmann–Sträussler–Scheinker; Spinal cord (Young, K. (44) 147)

Prodynorphin
Kainic acid; Cycloheximide; Proenkephalin; Proto-oncogene; Hippocampus (Won, J.-S. (47) 303)

Annelid; Leech; Neuropeptide; Sequence; Opioid; Phylogeny (Salzet, M. (52) 46)

Proenkephalin
mRNA; Ventromedial nucleus; Estrogen; Aging; Fetal alcohol exposure (Li, Y. (47) 215)

Kainic acid; Cycloheximide; Prodynorphin; Proto-oncogene; Hippocampus (Won, J.-S. (47) 303)

D_1-receptor; D_2-receptor; Glutamic acid decarboxylase (GAD); Basal ganglion; Entopeduncular nucleus; Striatum; Antipsychotics (Coirini, H. (49) 197)

Progesterone
Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Opioid; μ-Opioid receptor; Estrogen (Petersen, S.L. (52) 32)

Programmed cell death
Ref-1; c-Jun; Hypoxia-ischemia; Apoptosis (Walton, M. (44) 167)

Etoposide; PC12 cell; Apoptosis; DNA fragmentation; Nerve growth factor (NGF) (Saura, J. (48) 382)

ICE-related protease; Hippocampus; Global cerebral ischemia; Kainic acid; Gene expression; Protease activity (Gillardon, F. (50) 16)

Hypoxic-ischemia; Cyclooxygenase-2; Neuroprotection; Stroke; Microglia (Walton, M. (50) 165)

Projections neuron
Hybridization, in situ; Interneuron; Huntington's disease; Excitotoxicity (Kerner, J.A. (48) 259)

Proliferation
Somatostatin; Octreotide; Receptor; Endopeptidase-24.11; Meningeal cell; Fibroblast (Feindt, J. (44) 293)

Promoter
Serotonin transporter; Mouse; Gene organization; Antidepressant; Anxiety; Alcoholism; Affective disorder (Bengel, D. (44) 286)

Neuron; Testis; Cerebral cortex; Gene expression; Gene discovery; CpG island; Transmembrane protein (Herbst, R. (44) 309)

HCNP precursor protein; Nucleotide sequence; S1 mapping; Enhancer; CAT assay; Electrophoresis mobility shift assay; Gene expression (Tohdoh, N. (45) 24)

Brain-derived neurotrophic factor; Sequence; Primary cortico-hippocampal culture; Luciferase; Transient expression (Hayes, V.Y. (45) 189)

S100; Transcription; Luciferase; Glia (Castets, F. (46) 208)

Vesicular monoamine transporter (VMAT2); cDNA; Gene; Amphetamine; *N*-Methyl-1,2,3,6-tetrahydropyridine (MPTP) (Takahashi, N. (49) 7)

Human choline acetyltransferase; Transactivation; NGFI-A; NGFI-C; AP2 dbcAMP (Quirin-Stricker, C. (49) 165)

Tyrosine hydroxylase; Gene expression; Transgene; Transcription (Liu, J. (50) 33)

Promoter analysis
Genomic structure; Human VMAT2; 16 Exon; Green fluorescent protein; Cyclic AMP response element (Xu, W. (45) 41)

Pro-opiomelanocortin (POMC)
Regulation; Hypothalamic cell culture; Estradiol; Gene expression; Messenger ribonucleic acid (mRNA); Estrogen (Gao, Y. (45) 340)

Propofol
Ethanol; Glycine; *Xenopus* oocyte; Long-sleep mouse; Genetics; Neurosteroid (Mascia, M.P. (45) 169)

Proprioceptive neuron
PACAP; Mesencephalic trigeminal nucleus; Hybridization, in situ; Immunohistochemistry; Up-regulation; Peripheral axotomy; Co-existence (Oemar Larsen, J. (46) 109)

Prostaglandin
c-*fos*; mRNA expression; Cyclooxygenase; Nociception; Mofezolac; NS-398; Non-steroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

Prostaglandin E2
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Prostaglandin endoperoxide synthase
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Tin-mesoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Protease activity
Programmed cell death; ICE-related protease; Hippocampus; Global cerebral ischemia; Kainic acid; Gene expression (Gillardon, F. (50) 16)

Protein conformation
Glycosylation; Western blotting; Seven transmembrane receptor; Receptor subtype; Immunocytochemistry (Anthony, T.E. (50) 277)

Protein–DNA interaction
Enkephalin gene; Regulation; Development; Microdissection (Dobi, A. (52) 98)

Protein kinase
Neurofilament; Cytoskeleton; Protein phosphatase; Spinal cord; Axon (Strack, S. (49) 15)

Protein kinase A
PC12; Tyrosine hydroxylase; CRE; Adenosine receptor; Transcriptional regulation (Chae, H.-D. (44) 31)

δ-Opioid receptor mRNA; Ethanol; Forskolin; cAMP; Solution hybridization (Jenab, S. (47) 44)

Protein kinase C; Tissue culture; Gene activation; Tyrosine hydroxylase; Catecholamine differentiation; Fibroblast growth factor (Du, X. (50) 1)

Synapsin; Synaptic vesicle; CaM kinase II; SH3 domain; Actin; Monoclonal antibody; Epitope mapping; Peptide library (Vaccaro, P. (52) 1)

Protein kinase C
Differentiation; Low molecular weight GTP-binding protein; RhoA; Glioma; Rat (Yoshimura, S.-i. (45) 90)

Nicotinic acetylcholine receptor; *Torpedo*; Lysophosphatidylcholine; Lysophosphatidylethanolamine; Voltage-clamp (Ikeuchi, Y. (45) 317)

Ethanol; Muscarinic acetylcholine receptor; c-*fos* expression; Neuroblastoma SH-SY5Y cell (Ding, W.-Q. (46) 77)

Nerve growth factor; Insulin; Angiotensin II type 2 receptor; Neuron (Huang, X.-C. (47) 229)

Protein kinase A; Tissue culture; Gene activation; Tyrosine hydroxylase; Catecholamine differentiation; Fibroblast growth factor (Du, X. (50) 1)

ACh receptor; Lysophosphatidic acid; G-protein; Phosphorylation; Site-directed mutagenesis; Voltage clamp (Nishizaki, T. (50) 121)

Apoptosis; Bcl-2; Bcl-X_L; Bax; Trifluoperazine; Staurosporine; Calphostin C (Oh, Y.J. (51) 133)

Dopamine β-hydroxylase; Cyclic AMP response element; Phorbol 12-myristate 13-acetate; SK-N-BE(2)C cell (Kim, J.-S. (51) 154)

PC12 cell; Norepinephrine transporter; Rat; Cloning; Glycosylation; Casein kinase II; Transfection (Brüss, M. (52) 257)

Protein phosphatase
Neurofilament; Cytoskeleton; Protein kinase; Spinal cord; Axon (Strack, S. (49) 15)

Protein phosphorylation
Acetylcholinesterase; Neurotransmission; cAMP-dependent protein kinase A; Non-consensus phosphorylation site (Grifman, M. (51) 179)

Protein synthesis
Stress protein; Axotomy; Dorsal root ganglion; Heat-shock protein; Electrophoresis (Tedeschi, B. (45) 199)

Protein tyrosine phosphatase
Protein tyrosine phosphatase ε; PC12D cell; Neuronal differentiation; Neural function; Development of cerebellum; In situ (Mukouyama, Y. (50) 230)

Protein tyrosine phosphatase ε
Protein tyrosine phosphatase; PC12D cell; Neuronal differentiation; Neural function; Development of cerebellum; In situ (Mukouyama, Y. (50) 230)

Proteoglycan
Glutamate; Neurite growth; Gene expression; Hippocampal neuron (Wang, W. (48) 355)

Proto-oncogene
Kainic acid; Cycloheximide; Proenkephalin; Prodynorphin; Hippocampus (Won, J.-S. (47) 303)

PSA-NCAM
Polysialyltransferase; mRNA; Hybridization, in situ; Rat; Brain; Development (Wood, G.K. (51) 69)

PTZ-17
Seizure-related gene; Calcium entry; Seizure susceptibility; Pentylenetetrazol; 3′-Untranslated region; Post-transcriptional regulation; Mouse strain (Kajiwara, K. (47) 49)

Purkinje cell
Nitric oxide synthase; Stab-lesion; Cerebellum; Glutamic acid decarboxylase; NADPH-diaphorase histochemistry; Hybridization, in situ (Shigeyoshi, Y. (44) 229)

Cerebellum; Retinal bipolar neuron; PEP-19; Dendrite; Bax (Vassileva, G. (46) 333)

P2X
Ligand-gated channel; ATP receptor; Human spinal cord; Human heart (Garcia-Guzman, M. (47) 59)

Q

Quantitative competitive PCR
Cochlea; Dopamine; Dopamine receptors; Neurotransmission (Karadaghy, A.A. (44) 151)

Quisqualate
CA1; γ-Aminobutyric acid; Glutamic acid decarboxylase; Hybridization, in situ; Microdialysis (Falkenberg, T. (48) 413)

R

Rabbit
Norepinephrine transporter; Tyrosine hydroxylase; Neuropeptide Y; Dopamine β-hydroxylase; Hybridization, in situ; Medulla oblongata; Brainstem (Pau, K.-Y.F. (48) 367)

Retinal ganglion cell; Vitreous; Alzheimer's disease; Cholesterol; Triglyceride (Shanmugaratnam, J. (50) 113)

Rabbit spinal cord
Amyloid protein precursor (APP); Reversible ischemia; Irreversible ischemia; Stress-induced protein; Neuroprotection; Cell death (Komori, N. (49) 103)

Rabbit subunit
NMDAR2 subunit; Mouse monoclonal antibody; Immunoblot; Brain expression; Development; Rat subunit; Mouse subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

RACE-PCR
G-protein-coupled receptor kinase 6 (*GRK6*); Rat brain; Gene expression (Fehr, C. (49) 278)

Raclopride
Haloperidol; Clozapine; Amperozide; Antidepressant drug; Serotonin; Substance P; Somatostatin (Marcus, M.M. (45) 275)

SKF 38393; Bromocriptine; SCH 23390; Somatostatin receptor; Adenylyl cyclase; Inositol 1,4,5-trisphosphate; Striatum (Izquierdo-Claros, R.M. (47) 99)

Raf-1
Astrocyte; Ceramide; Mitogen-activated protein kinase; Nerve growth factor; Sphingomyelinase (Galve-Roperh, I. (52) 90)

***Rap* 1B**
K*rev*-1/*rap* 1A; H-*ras*; Gene expression; Spinal cord; Noxious stimulation (Urayama, O. (45) 331)

Ras
CDC25Mm; Ras-GRF; Hippocampal culture (Renata, Z. (48) 140)

Ras-GRF
CDC25Mm; Ras; Hippocampal culture (Renata, Z. (48) 140)

Rat
Steroidogenic factor-1; SF-1; Ad4BP; Cytochrome P450; Aromatase; Brain (Roselli, C.E. (44) 66)

Cocaine; Preprodynorphin; Preproenkephalin; κ Opioid receptor; mRNA; Brain (Spangler, R. (44) 139)

Cocaine; Neurotensin; mRNA; Nucleus accumbens; Shell; Striatum; Hybridization, in situ (Betancur, C. (44) 334)

Serotonin; Transporter; Estradiol; Luteinizing hormone; Affective disorder (McQueen, J.K. (45) 13)

Differentiation; Protein kinase C; Low molecular weight GTP-binding protein; RhoA; Glioma (Yoshimura, S.-i. (45) 90)

Brain; Immediate-early gene; NGFI-A; Sleep; Sleep deprivation; Wakefulness; Zif/268 (Pompeiano, M. (46) 143)

Amyloid β-protein; Amyloid β-protein, precursor; Alzheimer's disease; Cerebrospinal fluid; Cerebral cortex; Basal nucleus of Meynert; Acetylcholine; Acetylcholinesterase; Acetylcholinesterase inhibitor; Butyrylcholinesterase (Haroutunian, V. (46) 161)

Neuropeptide Y receptor; Hybridization, in situ; Hippocampus; Hypothalamus; Trigeminal ganglion (Gustafson, E.L. (46) 223)

Acetylcholine receptor; Nicotinic receptor; Immunocytochemistry; Hypothalamus (Shioda, S. (47) 45)

Fluoxetine; *p*-Chloroamphetamine; Somatostatin receptor; Adenylyl cyclase; Frontoparietal cortex (Muñoz-Acedo, G. (47) 117)

Fibroblast growth factor (FGF); mRNA; Neuron; Brain; Gene expression (Hattori, Y. (47) 139)

Fibroblast growth factor; Brain; Cerebellum; Granule cell; Development (Hattori, Y. (47) 262)

Arginine vasopressin; Choroid plexus; Immunohistochemistry; Hybridization histochemistry, in situ (Chodobski, A. (48) 67)

Corticotropin-releasing hormone; Aging process; Dehydroepiandrosterone; Paraventricular nucleus; Hybridization, in situ; Gene expression (Givalois, L. (48) 107)

Cerebral ischemia; Hippocampus; Apoptosis; Ischemia; NF-κB; Neurodegeneration (Clemens, J.A. (48) 187)

Central nervous system; Astrocyte; C5a anaphylatoxin receptor; cDNA; RT-PCR; Microfluorimetry (Sayah, S. (48) 215)

Basal ganglion; Parkinson's disease; GABAergic transmission (Caruncho, H.J. (48) 243)

Dopamine transporter; Vesicular monoamine transporter; Amphetamine; Sensitization; Hybridization, in situ; Ventral tegmental area; Substantia nigra (Lu, W. (49) 137)

Preprotachykinin; NK-1; Gene expression; RNase protection assay; Hypothalamus; Estrous cycle (Gautreau, A. (49) 157)

Focal ischemia; bFGF; Hybridization, in situ; Immunohistochemistry (Lin, T.N. (49) 255)

Interleukin-1β; Cytokine; Microglia; β-Adrenoceptor; β_2-Subtype (Maruta, E. (49) 291)

Type 2 interleukin-1 receptor; Kainic acid; Hybridization, in situ; Central nervous system; Convulsion; Interleukin-1 (Nishiyori, A. (50) 237)

Basal ganglia; Serotonergic lesion; Met-enkephalin; Substance P; Immunocytochemistry; In situ hybridization histochemistry (Compan, V. (50) 246)

Gene transfer; Nodose sensory neuron; Adenovirus; Green fluorescent protein (Meyrelles, S.S. (51) 33)

NGF; BDNF; Neurotrophin receptor; Pituitary gland; Thyroid hormone (Calzà, L. (51) 60)

Polysialyltransferase; mRNA; Hybridization, in situ; PSA-NCAM; Brain; Development (Wood, G.K. (51) 69)

Alcohol; Hypothalamus; Corticotropin-releasing factor (CRF) receptor (Lee, S. (52) 78)

PC12 cell; Norepinephrine transporter; Cloning; Glycosylation; Protein kinase C; Casein kinase II; Transfection (Brüss, M. (52) 257)

Rat, adult
Sodium channel; mRNA; Experimental epilepsy; Kainic acid; Reverse transcriptase-polymerase chain reaction (RT-PCR); In situ hybridization (ISH); Hippocampus (Gastaldi, M. (44) 179)

Rat brain
D4 dopaminergic receptor; Antipeptide antibody; Benzamide binding; Immunocytochemistry (Defagot, M.C. (45) 1)

$GABA_A$ receptor; Benzodiazepine receptor; mRNA; Aging; Antibody (Gutiérrez, A. (45) 59)

Opiate addiction; Morphine dependence; Morphine abstinence syndrome; α_{2a}-Adrenoceptor mRNA; Northern and dot-blot analyses (Busquets, X. (45) 154)

Glutamate; NMDA; Receptor; Antibody; Glycosylation; Hybridization, in situ; mRNA (Ciabarra, A.M. (46) 85)

Phosphatidylinositol transfer proteins α and β (PI-TPα and PI-TPβ); mRNA expression; Hybridization, in situ; Signal transduction; Secretion (Imai, H. (46) 256)

Neuropeptide Y Y_1 receptor; In situ hybridization; Receptor autoradiography; Ontogenesis (Tong, Y. (48) 323)

G-protein-coupled receptor kinase 6 (*GRK6*); RACE-PCR; Gene expression (Fehr, C. (49) 278)

Rat central nervous system
Cannabinoid tolerance; G-protein level; G-protein expression (Rubino, T. (44) 191)

Rat hypothalamus
Circadian clock; Reverse transcriptase-polymerase chain reaction; β-Actin; Cyclic AMP (Neu, J.M. (49) 303)

Rat strain
Tyrosine hydroxylase; Dopamine; Animal model; Outbreding/inbreding; DNA polymorphism (Murru, S. (45) 345)

Rat subunit
NMDAR2 subunit; Mouse monoclonal antibody; Immunoblot; Brain expression; Development; Mouse subunit; Rabbit subunit; Frog subunit; Human subunit (Laurie, D.J. (51) 23)

RC3/neurogranin
Brain gene expression; Hybridization, in situ; T3 receptor; Developmental regulation; Epigenetic factor; Thyroid gland (Guadaño-Ferraz, A. (49) 37)

Reactive oxygen species
Auditory neuron; Cisplatin neurotoxicity; Glutathione (Gabaizadeh, R. (50) 71)

Receptor
Somatostatin; Octreotide; Proliferation; Endopeptidase-24.11; Meningeal cell; Fibroblast (Feindt, J. (44) 293)

Dopamine; Reverse transcription; Polymerase chain reaction; Ribonuclease protection assay; Cocaine; Human brain; Excited delirium (Segal, D.M. (45) 335)

Glutamate; NMDA; Antibody; Glycosylation; Hybridization, in situ; mRNA; Rat brain (Ciabarra, A.M. (46) 85)

Neurotensin; Binding; Mutagenesis; Charged amino acid (Botto, J.-M. (46) 311)

Corticotropin-releasing hormone; Paraventricular nucleus; Lipopolysaccharide; Glucocorticoid (Makino, S. (47) 170)

Galanin; G-protein; Phosphoinositide hydrolysis; Pituitary; Hybridization, in situ (Fathi, Z. (51) 49)

Receptor autoradiography
Neuropeptide Y Y_1 receptor; In situ hybridization; Rat brain; Ontogenesis (Tong, Y. (48) 323)

Striatal development; D2 receptor; Human fetal brain; Hybridization, in situ (Brana, C. (48) 389)

Receptor, muscarinic
DFP; Phenserine; In vivo (Haroutunian, V. (46) 161)

Receptor signalling
Angiotensin; Angiotensin receptor; AT_2 receptor; *N*-Methyl-D-aspartate (NMDA); NMDA receptor; NMDAR1 receptor; Nitric oxide; cGMP; Neuron; PC12W pheochromocytoma cell line; NG108-115 neuroblastoma × glioma hybrid cell line (Schelman, W.R. (48) 197)

Receptor subtype
Glycosylation; Protein conformation; Western blotting; Seven transmembrane receptor; Immunocytochemistry (Anthony, T.E. (50) 277)

Receptor tyrosine kinase
EHK-1; Neuron; Glioma; Immunohistochemistry (Miescher, G.C. (46) 17)

Recombinant
Neuronal; κ-Bungarotoxin; Adenovirus; Acetylcholine; Nicotinic; Oocyte (Gorman, S. (44) 143)

Recoverin
Retina; Cyclic rhythm; Photoreceptor (Wiechmann, A.F. (45) 321)

Redox regulation
Global cerebral ischemia; Reperfusion injury; Oxidative stress; APE; APEX; Jun; Fos; Neuronal cell death (Gillardon, F. (52) 194)

Reeler mutant mouse
Brain development; Reelin; Cajal-Retzius cell (De Bergeyck, V. (50) 85)

Reelin
Brain development; Reeler mutant mouse; Cajal-Retzius cell (De Bergeyck, V. (50) 85)

Ref-1
c-Jun; Hypoxia-ischemia; Programmed cell death; Apoptosis (Walton, M. (44) 167)

Regional distribution
Synapsin II; Opiate tolerance; Morphine; In situ hybridization; Reverse transcriptase-polymerase chain reaction (RT-PCR) (Matus-Leibovitch, N. (45) 301)

Regulation
Pro-opiomelanocortin (POMC); Hypothalamic cell culture; Estradiol; Gene expression; Messenger ribonucleic acid (mRNA); Estrogen (Gao, Y. (45) 340)

Enkephalin gene; Development; Microdissection; Protein–DNA interaction (Dobi, A. (52) 98)

Reinnervation
Fibroblast growth factor-2; Competitive RT-PCR; Lung; Peripheral nervous system; Schwann cell (Shimada, J. (49) 295)

Release
Glycine transporter; Sarcosine; NMDA receptor (Sakata, K. (49) 89)

Renin
Antisense oligonucleotide; Angiotensinogen; Angiotensin II; Isoproterenol; Thirst; Water intake (Sinnayah, P. (50) 43)

Renin–angiotensin system
Angiotensin-converting enzyme; Leech; Multicellular cooperation (Vandenbulcke, F. (49) 229)

Reperfusion injury
Global cerebral ischemia; Oxidative stress; Redox regulation; APE; APEX; Jun; Fos; Neuronal cell death (Gillardon, F. (52) 194)

Respiratory chain
Dopamine; Norepinephrine; Monoamine oxidase inhibitor; Mechanism; Enzyme regulation; Superoxide dismutase; L-Deprenyl (Thiffault, C. (49) 127)

Retina
$InsP_4$ receptor; Hybridization, in situ; Immunocytochemistry; Optic nerve crush; Trauma; Inositol 1,3,4,5-tetrakisphosphate; Ca^{2+} (Kreutz, M.R. (45) 283)

Recoverin; Cyclic rhythm; Photoreceptor (Wiechmann, A.F. (45) 321)

5-HT_{1A} serotonin receptor; cDNA sequence; mRNA expression; Development; Brain; *Xenopus* (Marracci, S. (47) 67)

Electrogenesis; Ion channel; Hybridization, in situ; mRNA; Optic nerve; RT-PCR (Fjell, J. (50) 197)

Retinal bipolar neuron
Cerebellum; Purkinje cell; PEP-19; Dendrite; Bax (Vassileva, G. (46) 333)

Retinal ganglion cell
Axonal regeneration; Apoptosis; Interleukin-1 β-converting enzyme (Lucius, R. (48) 181)

Rabbit; Vitreous; Alzheimer's disease; Cholesterol; Triglyceride (Shanmugaratnam, J. (50) 113)

Nicotinic acetylcholine receptor; Glutamate receptor; Hybridization, in situ; Gene expression (Hoover, F. (51) 123)

Retinoid X receptor
Neuroblastoma cell; DNA binding protein; ARP-1; COUP-TF; Enkephalin (Chan, R.M. (45) 50)

Retroviral vector
Transplantation; *Drosophila* choline acetyltransferase; Dexamethasone; Cytokine (Schinstine, M. (47) 195)

Reverse transcriptase-polymerase chain reaction (RT-PCR)
Sodium channel; mRNA; Experimental epilepsy; Kainic acid; In situ hybridization (ISH); Hippocampus; Rat, adult (Gastaldi, M. (44) 179)

Synapsin II; Opiate tolerance; Morphine; In situ hybridization; Regional distribution (Matus-Leibovitch, N. (45) 301)

Reverse transcriptase-polymerase chain reaction
Circadian clock; Rat hypothalamus; β-Actin; Cyclic AMP (Neu, J.M. (49) 303)

Reverse transcription
Tryptophan hydroxylase; Polymorphism; Serotonin; Polymerase chain reaction; Intron; Splicing; Linkage disequilibrium (Nielsen, D.A. (45) 145)

Receptor; Dopamine; Polymerase chain reaction; Ribonuclease protection assay; Cocaine; Human brain; Excited delirium (Segal, D.M. (45) 335)

Reverse transcription-polymerase chain reaction (RT-PCR)
Patch-clamp; Acute cell isolation; AMPA receptor; Glial cell; Hippocampus (Seifert, G. (47) 286)

Reversible ischemia
Amyloid protein precursor (APP); Rabbit spinal cord; Irreversible ischemia; Stress-induced protein; Neuroprotection; Cell death (Komori, N. (49) 103)

RFLP
$GABA_A$ receptor; Alpha1 subunit; Alpha6 subunit; C57BL/6J and DBA/2J inbred strain; BXD recombinant inbred strain (Garrett, K.M. (45) 133)

Rhizotomy
Axotomy; Brain-derived neurotrophic factor; c-jun; Dorsal root ganglion; JunB; JunD; Nerve growth factor (Kenney, A.M. (52) 53)

RhoA
Differentiation; Protein kinase C; Low molecular weight GTP-binding protein; Glioma; Rat (Yoshimura, S.-i. (45) 90)

Rho GTPase
In situ hybridization; Northern blot hybridization; Western blot; Neuron; Brain (Olenik, C. (52) 263)

Ribonuclease protection assay
μ-Opioid receptor mRNA (MOR); μ-Opioid receptor binding; Gene expression; Naltrexone; Morphine (Castelli, M.P. (45) 149)

Receptor; Dopamine; Reverse transcription; Polymerase chain reaction; Cocaine; Human brain; Excited delirium (Segal, D.M. (45) 335)

RNA
Tyrosinase; RT-PCR; Substantia nigra; Parkinson's disease; Gene expression (Xu, Y. (45) 159)

Glutamate; AMPA; Kainate; *N*-Methyl-D-aspartate (NMDA); Motoneuron; Spinal cord; Alternative splicing (Temkin, R. (52) 38)

mRNA
AMPA receptor; Agonal state; Alternative splicing; Human brain; Non-NMDA receptor; Schizophrenia (Eastwood, S.L. (44) 92)

Northern blot; Mitochondria; Oxidative phosphorylation; Energy metabolism; Cerebral cortex; Brain; Alzheimer disease (Chandrasekaran, K. (44) 99)

Cocaine; Preprodynorphin; Preproenkephalin; κ Opioid receptor; Rat; Brain (Spangler, R. (44) 139)

Sodium channel; Experimental epilepsy; Kainic acid; Reverse transcriptase-polymerase chain reaction (RT-PCR); In situ hybridization (ISH); Hippocampus; Rat, adult (Gastaldi, M. (44) 179)

Supraoptic nucleus; Hypothalamus; Glutamate; NMDA; NR1; NR2; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

Cocaine; Neurotensin; Nucleus accumbens; Shell; Striatum; Hybridization, in situ; Rat (Betancur, C. (44) 334)

$GABA_A$ receptor; Benzodiazepine receptor; Aging; Antibody; Rat brain (Gutiérrez, A. (45) 59)

Vasopressin receptor; RT-PCR; Neuron; Astroglia; Oligodendroglia; Cerebral cortex; Learning and memory (Yamazaki, R.S. (45) 138)

Plasma membrane calcium ATPase; Cell death; Kainic acid; Seizure; Hippocampus; Glutamate (Garcia, M.L. (45) 230)

Glutamate; NMDA; Receptor; Antibody; Glycosylation; Hybridization, in situ; Rat brain (Ciabarra, A.M. (46) 85)

Enkephalin; Dynorphin; D_2 dopamine receptor; Epilepsy; Striatum; Hybridization histochemistry, in situ (De Bartolomeis, A. (46) 321)

Heat shock protein (HSP); Ubiquitin (UB); Superoxide dismutase (SOD); Cytochrome oxidase (COX); Anoxia; *Drosophila*; Slot blot (Ma, E. (46) 325)

Androgen receptor; Estrogen receptor; Gonadotrophin-releasing hormone; Luteinizing hormone; Luteinizing-releasing hormone; Male rat; Preoptic area (Spratt, D.P. (47) 125)

Hybridization, in situ; Estrogen; Enkephalin; Sexual behavior; Lordosis; Hypothalamus; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

Fibroblast growth factor (FGF); Neuron; Brain; Rat; Gene expression (Hattori, Y. (47) 139)

Proenkephalin; Ventromedial nucleus; Estrogen; Aging; Fetal alcohol exposure (Li, Y. (47) 215)

Antinociception; Antisense oligodeoxynucleotides; δ-Opioid receptor; [D-Ala^2]deltorphin II; Supraspinal (Lee, C.E. (48) 17)

Growth hormone secretagogue receptor; Hybridization, in situ; RNase protection assay (Guan, X.-M. (48) 23)

Schizophrenia; Serotonin receptor; Antipsychotic drug; Clozapine; Haloperidol; Sulperide (Buckland, P.R. (48) 45)

Glutamic acid decarboxylase; Glutamate decarboxylase (GAD); γ-Aminobutyric acid (GABA); Striato-nigral; Dopamine; D1 receptor; Hybridization histochemistry, in situ (Laprade, N. (48) 333)

PKCα; PKCβ; PKCγ; PKCδ; Temporal lobe epilepsy; Neuronal plasticity (Guglielmetti, F. (49) 188)

Tyrosine hydroxylase; Locus coeruleus; Dendrite; Ontogeny; Immunoautoradiography; Topology (Bezin, L. (50) 23)

Electrogenesis; Ion channel; Hybridization, in situ; Optic nerve; Retina; RT-PCR (Fjell, J. (50) 197)

Epilepsy; In situ hybridization; Plasticity; Gene expression; Voltage-dependent calcium channel; Hippocampus; Kindling (Hendriksen, H. (50) 257)

Acetylcholine; Hybridization histochemistry; Immunocytochemistry (Sugaya, K. (50) 305)

Polysialyltransferase; Hybridization, in situ; PSA-NCAM; Rat; Brain; Development (Wood, G.K. (51) 69)

Glucocorticoid; Growth factor; Hippocampus; Astrocyte; RNase protection; ELISA (Niu, H. (51) 97)

RNA-binding protein
Astrocyte; HEK293 cell; Neurotrophin; Transfection; Cell-free RNA decay; mRNA half-life (Tang, B. (46) 118)

mRNA distribution
Doc2; C2 domain; Exocytosis; Central nervous system (Naito, A. (44) 198)

RNA editing
Hippocampus; Glutamate receptor; Development; Chick; Single-cell PCR (Lowe, D.L. (48) 37)

Glutamate receptor; Kainate; Cerebellum; Granule cell; Development (Belcher, S.M. (52) 130)

mRNA expression
Striatum; Substantia nigra; Tyrosine hydroxylase; Western blot analysis (Rodríguez-Gómez, J.A. (46) 31)

Phosphatidylinositol transfer proteins α and β (PI-TPα and PI-TPβ); Rat brain; Hybridization, in situ; Signal transduction; Secretion (Imai, H. (46) 256)

5-HT$_{1A}$ serotonin receptor; cDNA sequence; Development; Brain; Retina; *Xenopus* (Marracci, S. (47) 67)

L-DOPA treatment; Dopamine; Neuropeptide; Neostriatum (Salin, P. (47) 311)

c-*fos*; Prostaglandin; Cyclooxygenase; Nociception; Mofezolac; NS-398; Non-steroidal anti-inflammatory drug (Kusuhara, H. (52) 151)

mRNA half-life
Astrocyte; HEK293 cell; Neurotrophin; Transfection; Cell-free RNA decay; RNA-binding protein (Tang, B. (46) 118)

mRNA quantification
Ethanol; Behavioral dependence; Dopamine receptor (Eravci, M. (50) 221)

RNase protection
Glucocorticoid; Growth factor; Hippocampus; Astrocyte; mRNA; ELISA (Niu, H. (51) 97)

RNase protection assay
Gastrointestinal tract; Opioid receptors; μ- and κ-Opioid receptors; Immunohistochemistry (Fickel, J. (46) 1)

Growth hormone secretagogue receptor; mRNA; Hybridization, in situ (Guan, X.-M. (48) 23)

Preprotachykinin; NK-1; Gene expression; Hypothalamus; Estrous cycle; Rat (Gautreau, A. (49) 157)

mRNA stability
Melanin-concentrating hormone; Tyrosine hydroxylase; Neurotensin; Gene transcription; Lithium; Glucocorticoids; PC12 cells (Presse, F. (52) 270)

hnRNP U
Two-hybrid; Brain-4; POU protein (Malik, K.F. (45) 99)

R-nurr1
Northern analysis; Hybridization, in situ; Electroconvulsive seizure; Amygdala kindling (Xing, G. (47) 251)

ROS
Glutathione peroxidase; PC12; MPTP; MA; Dopaminergic (Hom, D.G. (46) 154)

Rotation
Antisense; Immediate-early gene; Suppression; Basal ganglia (Hebb, M.O. (48) 97)

RT-PCR
Vasopressin receptor; Neuron; Astroglia; Oligodendroglia; mRNA; Cerebral cortex; Learning and memory (Yamazaki, R.S. (45) 138)

Tyrosinase; Substantia nigra; Parkinson's disease; Gene expression; RNA (Xu, Y. (45) 159)

Adenylyl cyclase type I; Inner hair cell; Cochlea; Immunohistochemistry (Drescher, M.J. (45) 325)

Glutamic acid decarboxylase; GAD67; GAD65; Human fetal brain (Chan, S.O. (46) 318)

Cochlea cDNA library; Systematic sequencing; Hybridization, in situ; Novel gene; pCO8; drk1 (Soto-Prior, A. (47) 1)

Vomeronasal organ (Mimmack, M.L. (47) 345)

Menkes ATPase; Copper homeostasis; C6 glioma cell; PC12 cell (Qian, Y. (48) 60)

Central nervous system; Astrocyte; C5a anaphylatoxin receptor; Rat; cDNA; Microfluorimetry (Sayah, S. (48) 215)

Excitatory amino-acid receptor; Avian; *Gallus domesticus*; Splice variant; Alternative splicing (Ravindranathan, A. (50) 143)

Electrogenesis; Ion channel; Hybridization, in situ; mRNA; Optic nerve; Retina (Fjell, J. (50) 197)

Dorsal root ganglion; Nerve injury; Neuropathic pain; *SCN10A*; α-SNS; Voltage-gated sodium channel; Hyperalgesia (Oaklander, A.L. (52) 162)

RT–PCR
Clathrin assembly protein; Synaptogenesis; Growth cone; Synaptophysin; GAP-43 (Ishihara-Sugano, M. (52) 290)

S

S100
Transcription; Luciferase; Glia; Promoter (Castets, F. (46) 208)

Salt appetite
Preprotachykinin-A mRNA; SHR; WKY rat (Pompei, P. (47) 78)

Sarcosine
Glycine transporter; Release; NMDA receptor (Sakata, K. (49) 89)

SCH 23390
SKF 38393; Bromocriptine; Raclopride; Somatostatin receptor; Adenylyl cyclase; Inositol 1,4,5-trisphosphate; Striatum (Izquierdo-Claros, R.M. (47) 99)

Schizophrenia
AMPA receptor; Agonal state; Alternative splicing; Human brain; mRNA; Non-NMDA receptor (Eastwood, S.L. (44) 92)

c-*fos*; Orbitofrontal cortex; Somatosensory cortex; Motor cortex; In situ hybridization (Palmer, L.C. (46) 127)

Glutamate; Hybridization, in situ; Antipsychotics; Nucleus accumbens (Healy, D.J. (47) 331)

Serotonin receptor; Antipsychotic drug; mRNA; Clozapine; Haloperidol; Sulperide (Buckland, P.R. (48) 45)

LSD; Phencyclidine; Aromatic L-amino acid decarboxylase; Dopa decarboxylase; Candidate gene (Buckland, P.R. (49) 266)

Glutamate; Haloperidol; Clozapine (Riva, M.A. (50) 136)

Schwann cell
Fibroblast growth factor-2; Competitive RT-PCR; Reinnervation; Lung; Peripheral nervous system (Shimada, J. (49) 295)

Sciatic nerve
Microtubule-associated protein tau; Axotomy; Nerve regeneration (Chambers, C.B. (48) 115)

Sciatic nerve transection
Islet amyloid polypeptide; Amylin; Calcitonin gene-related peptide; Nerve suture; In situ hybridization; Immunocytochemistry (Mulder, H. (47) 322)

SCN10A
Dorsal root ganglion; Nerve injury; Neuropathic pain; RT-PCR; α-SNS; Voltage-gated sodium channel; Hyperalgesia (Oaklander, A.L. (52) 162)

Scrapie
Prion; Neurodegenerative; Genetic; Creutzfeldt–Jakob disease; Mutant; Heterozygous; Metabolism (Lehmann, S. (52) 139)

β-Secretase
Metalloendopeptidase; Cathepsin D; Expression; Amyloid-β-protein; Alzheimer's disease; Amyloidogenic cleavage (Thompson, A. (48) 206)

Secretion
IP_3 receptor; Gene expression; Olfaction; Alternate splicing; Signal transduction; Sensory epithelium; Calcium channel (Smutzer, G. (44) 347)

Phosphatidylinositol transfer proteins α and β (PI-TPα and PI-TPβ); mRNA expression; Rat brain; Hybridization, in situ; Signal transduction (Imai, H. (46) 256)

Choroid plexus; Kinesin; Cerebrospinal fluid; Epithelia; Hybridization, in situ (Rogers, K.R. (51) 161)

Secretogranin II
Synthesis regulation; Chromogranin A; Chromogranin B; Enkephalin; Neuropeptide Y; Kainic acid; Epilepsy (Tsunashima, K. (51) 42)

Seizure
Locus coeruleus; Substantia nigra; Ventral tegmentum area; Pentylenetetrazol; c-*fos*; Neurotransporter (Szot, P. (44) 46)

Epilepsy; Neurotrophin; Development; Hybridization, in situ; Electroencephalogram; Pilocarpine; Kainic acid; Brain derived neurotrophic factor; Brain (Kornblum, H.I. (44) 219)

Plasma membrane calcium ATPase; Cell death; Kainic acid; Hippocampus; mRNA; Glutamate (Garcia, M.L. (45) 230)

c-Fos; Heat shock protein; Status epilepticus; Development (Motte, J.E. (50) 79)

Seizure-related gene
PTZ-17; Calcium entry; Seizure susceptibility; Pentylenetetrazol; 3′-Untranslated region; Post-transcriptional regulation; Mouse strain (Kajiwara, K. (47) 49)

Seizure susceptibility
Seizure-related gene; PTZ-17; Calcium entry; Pentylenetetrazol; 3′-Untranslated region; Post-transcriptional regulation; Mouse strain (Kajiwara, K. (47) 49)

Selective neuronal vulnerability
Lysosomal; Gene expression (Sun, N. (45) 353)

Semaphorin
Collapsin; Axon guidance; Innervation; Somite; Myotome; Dorsal root ganglia (Kikuchi, K. (51) 229)

Senile plaque
Neurotrophic factor; Astrogliosis; β-Amyloid protein; Neurodegeneration (Connor, B. (49) 283)

Sensitization
Dopamine transporter; Vesicular monoamine transporter; Amphetamine; Hybridization, in situ; Ventral tegmental area; Substantia nigra; Rat (Lu, W. (49) 137)

Sensory epithelium
IP_3 receptor; Gene expression; Olfaction; Alternate splicing; Signal transduction; Secretion; Calcium channel (Smutzer, G. (44) 347)

Sensory neuron
Diabetic neuropathy; trkA; Neurotrophin; NGF receptor (Delcroix, J.-D. (51) 82)

Septohippocampal pathway
Ethylcholine aziridinium (AF64A); Brain-derived neurotrophic factor (BDNF); Cholinergic basal forebrain; Neurotrophin-3 (NT-3); Nerve growth factor (NGF); Choline acetyltransferase (ChAT) (Hellweg, R. (45) 177)

Sequence
Brain-derived neurotrophic factor; Promoter; Primary cortico-hippocampal culture; Luciferase; Transient expression (Hayes, V.Y. (45) 189)

Annelid; Leech; Prodynorphin; Neuropeptide; Opioid; Phylogeny (Salzet, M. (52) 46)

Serotonergic lesion
Basal ganglia; Met-enkephalin; Substance P; Immunocytochemistry; In situ hybridization histochemistry; Rat (Compan, V. (50) 246)

Serotonin
Transporter; Estradiol; Luteinizing hormone; Rat; Affective disorder (McQueen, J.K. (45) 13)

Tryptophan hydroxylase; Polymorphism; Polymerase chain reaction; Intron; Splicing; Linkage disequilibrium; Reverse transcription (Nielsen, D.A. (45) 145)

Haloperidol; Clozapine; Amperozide; Raclopride; Antidepressant drug; Substance P; Somatostatin (Marcus, M.M. (45) 275)

Glucocorticoid; Melatonin; Tryptophan hydroxylase; Thyroid C cell; Parafollicular cell; Competitive RT-PCR (Clark, M.S. (48) 346)

Tropane; Preprodynorphin; Preproenkephalin; Cocaine; Fluoxetine; Striatum; Nucleus accumbens (Daunais, J.B. (50) 293)

Serotonin 1A receptor
Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Mouse; 8-OH-DPAT; Adrenalectomy; Corticosterone (Meijer, O.C. (46) 290)

Serotonin receptor
Hippocampus; Gene expression; Glucocorticoid; Metyrapone; Aminoglutethimide (Yau, J.L.W. (45) 182)

Schizophrenia; Antipsychotic drug; mRNA; Clozapine; Haloperidol; Sulperide (Buckland, P.R. (48) 45)

Serotonin transporter
Mouse; Gene organization; Promoter; Antidepressant; Anxiety; Alcoholism; Affective disorder (Bengel, D. (44) 286)

Catecholamine (CA); Biogenic amine; Norepinephrine transporter (NET); Dopamine transporter (DAT) (Padbury, J.F. (45) 163)

Serum deprivation
Apoptosis; Excitotoxicity; Phosphorylated tau; Primary neuronal culture (Lesort, M. (45) 127)

Serum response element
C-*fos* gene expression; Cortical lesion; Down-regulation; Desensitization; C-*fos* gene autoregulation (Ivkovic, S. (52) 62)

Seven transmembrane receptor
Glycosylation; Protein conformation; Western blotting; Receptor subtype; Immunocytochemistry (Anthony, T.E. (50) 277)

Sexual behavior
mRNA; Hybridization, in situ; Estrogen; Enkephalin; Lordosis; Hypothalamus; Amygdala; MOR (Quiñones-Jenab, V. (47) 134)

SF-1
Steroidogenic factor-1; Ad4BP; Cytochrome P450; Aromatase; Brain; Rat (Roselli, C.E. (44) 66)

SH3 domain
Synapsin; Synaptic vesicle; Protein kinase A; CaM kinase II; Actin; Monoclonal antibody; Epitope mapping; Peptide library (Vaccaro, P. (52) 1)

Sheep
Maternal behavior; c-*fos*; Olfactory memory; Parturition; Vaginocervical stimulation; *zif/*268 (Da Costa, A.P.C. (46) 63)

Shell
Cocaine; Neurotensin; mRNA; Nucleus accumbens; Striatum; Hybridization, in situ; Rat (Betancur, C. (44) 334)

SHR
Preprotachykinin-A mRNA; WKY rat; Salt appetite (Pompei, P. (47) 78)

Signalling
Myelin; Oligodendrocyte; Monomeric GTP-binding protein (Burcelin, R. (50) 9)

Signal transduction
IP_3 receptor; Gene expression; Olfaction; Alternate splicing; Sensory epithelium; Secretion; Calcium channel (Smutzer, G. (44) 347)

Phosphatidylinositol transfer proteins α and β (PI-TPα and PI-TPβ); mRNA expression; Rat brain; Hybridization, in situ; Secretion (Imai, H. (46) 256)

Olfaction; Olfactory receptor; GTP-binding protein; Cyclic adenosine 3′:5′-monophosphate; Functional expression; Melanophore; Molecular sequence data (McClintock, T.S. (48) 270)

Single-cell PCR
RNA editing; Hippocampus; Glutamate receptor; Development; Chick (Lowe, D.L. (48) 37)

Site-directed mutagenesis
AMPA receptor; Glutamate receptor channel; α_1-Subunit; Ion channel; Agonist-binding site; Baculovirus; Insect cell (Kawamoto, S. (47) 339)

ACh receptor; Lysophosphatidic acid; G-protein; Protein kinase C; Phosphorylation; Voltage clamp (Nishizaki, T. (50) 121)

SKF 38393
Bromocriptine; SCH 23390; Raclopride; Somatostatin receptor; Adenylyl cyclase; Inositol 1,4,5-trisphosphate; Striatum (Izquierdo-Claros, R.M. (47) 99)

SK-N-BE(2)C cell
Dopamine β-hydroxylase; Cyclic AMP response element; Phorbol 12-myristate 13-acetate; Protein kinase C (Kim, J.-S. (51) 154)

Sleep
Brain; Immediate-early gene; NGFI-A; Rat; Sleep deprivation; Wakefulness; Zif/268 (Pompeiano, M. (46) 143)

Sleep deprivation
Brain; Immediate-early gene; NGFI-A; Rat; Sleep; Wakefulness; Zif/268 (Pompeiano, M. (46) 143)

Slot blot
Heat shock protein (HSP); Ubiquitin (UB); Superoxide dismutase (SOD); Cytochrome oxidase (COX); Anoxia; *Drosophila*; mRNA (Ma, E. (46) 325)

S1 mapping
HCNP precursor protein; Nucleotide sequence; Promoter; Enhancer; CAT assay; Electrophoresis mobility shift assay; Gene expression (Tohdoh, N. (45) 24)

SNAP-25
Synaptic protein; Synapsin I; Oct-2 transcription factor; Transcriptional control (Deans, Z.C. (51) 1)

α-SNS
Dorsal root ganglion; Nerve injury; Neuropathic pain; RT-PCR; *SCN10A*; Voltage-gated sodium channel; Hyperalgesia (Oaklander, A.L. (52) 162)

Sodium appetite
Sodium depletion; Preprotachykinin-A; Preprotachykinin-B; Tachykinin (Pompei, P. (49) 149)

Sodium butyrate
Phenylethanolamine *N*-methyltransferase (PNMT); Adrenergic expression; Transcriptional control; Dexamethasone; Synergistic activation (Ebert, S.N. (47) 24)

Sodium channel
mRNA; Experimental epilepsy; Kainic acid; Reverse transcriptase-polymerase chain reaction (RT-PCR); In situ hybridization (ISH); Hippocampus; Rat, adult (Gastaldi, M. (44) 179)

β_1 subunit; $\alpha\beta_1$ complex; Hippocampus; Postnatal development; Neuronal culture; Internalization (Alcaraz, G. (51) 143)

Sodium-dependent transporter
GLAST; Oocyte; *Xenopus*; Neurolathyrism; *Lathyrus* toxin; β-(Isoxazolin-5-on-4-yl)-L-alanine; β-ODAP (Kusama-Eguchi, K. (52) 166)

Sodium depletion
Sodium appetite; Preprotachykinin-A; Preprotachykinin-B; Tachykinin (Pompei, P. (49) 149)

Soleus
Muscle activation history; Phrenic; Extensor digitorum longus; Tensor fascia latae motor pool (Blanco, C.E. (44) 253)

Solution hybridization
Dynorphin; Opioid; Hunger; Diabetes (Berman, Y. (46) 25)

δ-Opioid receptor mRNA; Ethanol; Forskolin; cAMP; Protein kinase A (Jenab, S. (47) 44)

Somatosensory cortex
c-*fos*; Orbitofrontal cortex; Motor cortex; Schizophrenia; In situ hybridization (Palmer, L.C. (46) 127)

Somatostatin
Octreotide; Receptor; Proliferation; Endopeptidase-24.11; Meningeal cell; Fibroblast (Feindt, J. (44) 293)

Haloperidol; Clozapine; Amperozide; Raclopride; Antidepressant drug; Serotonin; Substance P (Marcus, M.M. (45) 275)

Preprotachykinin A; Substance P; Suprachiasmatic nucleus; Coexistence; Hybridization, in situ (Shigeyoshi, Y. (48) 159)

Basal ganglia; Hybridization, in situ; Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine); Medial medullary lamina (Eve, D.J. (50) 59)

Somatostatin receptor
SKF 38393; Bromocriptine; SCH 23390; Raclopride; Adenylyl cyclase; Inositol 1,4,5-trisphosphate; Striatum (Izquierdo-Claros, R.M. (47) 99)

Fluoxetine; *p*-Chloroamphetamine; Adenylyl cyclase; Rat; Frontoparietal cortex (Muñoz-Acedo, G. (47) 117)

Somite
Semaphorin; Collapsin; Axon guidance; Innervation; Myotome; Dorsal root ganglia (Kikuchi, K. (51) 229)

SP1
Neurofilament; Transcription, in vitro; NF-1; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (48) 305)

Sphingomyelinase
Astrocyte; Ceramide; Mitogen-activated protein kinase; Nerve growth factor; Raf-1 (Galve-Roperh, I. (52) 90)

Spinal cord
Prion protein; Amyloid; Gerstmann–Sträussler–Scheinker; *PRNP* mutation (Young, K. (44) 147)

K *rev*-1/*rap* 1A; *Rap* 1B; H-*ras*; Gene expression; Noxious stimulation (Urayama, O. (45) 331)

Neurofilament; Cytoskeleton; Protein phosphatase; Protein kinase; Axon (Strack, S. (49) 15)

Glutamate; AMPA; Kainate; *N*-Methyl-D-aspartate (NMDA); Motoneuron; Alternative splicing; RNA (Temkin, R. (52) 38)

Splice variant
Cyclic nucleotide-gated channel; Pineal gland; Glutamic acid-rich protein; Photoreceptor; Brain (Sautter, A. (48) 171)

Excitatory amino-acid receptor; Avian; *Gallus domesticus*; RT-PCR; Alternative splicing (Ravindranathan, A. (50) 143)

Splicing
Tryptophan hydroxylase; Polymorphism; Serotonin; Polymerase chain reaction; Intron; Linkage disequilibrium; Reverse transcription (Nielsen, D.A. (45) 145)

Spontaneous hypertension
Nitric oxide synthase; Hypothalamus; Paraventricular nucleus; Sympathetic nervous system; Polymerase chain reaction; Hybridization, in situ (Plochocka-Zulinska, D. (48) 291)

Stab-lesion
Nitric oxide synthase; Cerebellum; Purkinje cell; Glutamic acid decarboxylase; NADPH-diaphorase histochemistry; Hybridization, in situ (Shigeyoshi, Y. (44) 229)

Stathmin
Brain-derived neurotrophic factor (BDNF); Mitogen-activated protein kinase (MAPK); 2D-PAGE; Phosphorylation; Nerve growth factor (NGF); Cortical neurons (Cardinaux, J.-R. (51) 220)

Status epilepticus
c-Fos; Heat shock protein; Seizure; Development (Motte, J.E. (50) 79)

Staurosporine
Apoptosis; Protein kinase C; Bcl-2; Bcl-X_L; Bax; Trifluoperazine; Calphostin C (Oh, Y.J. (51) 133)

$GABA_A$ receptor; Neurosteroid; THDOC; Pregnenolone sulfate; Phosphorylation; PKC; Phorbol esters; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

Steroidogenic factor-1
SF-1; Ad4BP; Cytochrome P450; Aromatase; Brain; Rat (Roselli, C.E. (44) 66)

Stress
Heat-shock protein; Immediate-early gene; Hypoxia-ischemia; Brain injury; Hippocampus (Gilby, K.L. (48) 87)

Cytokine-induced neutrophil chemoattractant; Chemokine; Hyperosmotic challenge; Supraoptic nucleus (Koike, K. (52) 326)

Stress gene
Brain injury; Heat-shock protein; Astrogliosis; Stroke (Plumier, J.-C.L. (45) 239)

Stress-induced protein
Amyloid protein precursor (APP); Rabbit spinal cord; Reversible ischemia; Irreversible ischemia; Neuroprotection; Cell death (Komori, N. (49) 103)

Stress protein
Axotomy; Dorsal root ganglion; Heat-shock protein; Protein synthesis; Electrophoresis (Tedeschi, B. (45) 199)

Hsp70; Hsc70; Hybridization, in situ (Foster, J.A. (45) 207)

Striatal development
D2 receptor; Human fetal brain; Hybridization, in situ; Receptor autoradiography (Brana, C. (48) 389)

Striatal lesion
Girisopam; 2,3-Benzodiazepine; AMPA; Striato-nigral transection; Autoradiography (Horváth, E.J. (45) 141)

Striato-nigral
Glutamic acid decarboxylase; Glutamate decarboxylase (GAD); γ-Aminobutyric acid (GABA); Dopamine; D1 receptor; mRNA; Hybridization histochemistry, in situ (Laprade, N. (48) 333)

Striato-nigral transection
Girisopam; 2,3-Benzodiazepine; Striatal lesion; AMPA; Autoradiography (Horváth, E.J. (45) 141)

Striatum
Transcription; DNA–protein interaction; Aging; Neurodegenerative disease; Parkinson's; Huntington's; Motor control (Chernak, J.M. (44) 113)

Cocaine; Neurotensin; mRNA; Nucleus accumbens; Shell; Hybridization, in situ; Rat (Betancur, C. (44) 334)

Substantia nigra; Tyrosine hydroxylase; mRNA expression; Western blot analysis (Rodríguez-Gómez, J.A. (46) 31)

Aging; Phosphatidylinositide; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate receptor mRNA; Inositol 1,4,5-trisphosphate 3-kinase; Inositol 1,4,5-trisphosphate 5-phosphatase (Igwe, O.J. (46) 39)

Basal nucleus of Meynert; Excitotoxicity; Flip; Flop; Globus pallidus; Glutamate receptor; Nucleus accumbens (Tomiyama, M. (46) 281)

Enkephalin; Dynorphin; D_2 dopamine receptor; mRNA; Epilepsy; Hybridization histochemistry, in situ (De Bartolomeis, A. (46) 321)

Dopamine transporter; Ovariectomy; Estradiol; Nucleus accumbens; Substantia nigra; Ventral tegmental area; In situ hybridization (Bossé, R. (46) 343)

AP-1; NMDA receptor; Transcription factor; Nerve growth factor (Hollen, K.M. (47) 31)

SKF 38393; Bromocriptine; SCH 23390; Raclopride; Somatostatin receptor; Adenylyl cyclase; Inositol 1,4,5-trisphosphate (Izquierdo-Claros, R.M. (47) 99)

Cerebral ischemia; Photoaffinity; Glutamine synthetase; Ca ATPase; Hippocampus (Sankaran, B. (47) 237)

α_2-Adrenergic receptor; α_2-Adrenoceptor; Caudate-putamen; Antisense (Lu, L. (47) 267)

c-*fos*; Neurotensin; Haloperidol; Immediate-early gene; Knockout mouse; Gene expression regulation (Shearman, L.P. (47) 275)

D_1-receptor; D_2-receptor; Proenkephalin; Glutamic acid decarboxylase (GAD); Basal ganglion; Entopeduncular nucleus; Antipsychotics (Coirini, H. (49) 197)

Multiplex differential display; Cocaine; Zinc-finger protein; Gene regulation (Ennulat, D.J. (49) 299)

Glutamate transport; Excitotoxicity; Huntington's disease; Hybridization, in situ; MK-801 (Liévens, J.-C. (50) 181)

Serotonin; Tropane; Preprodynorphin; Preproenkephalin; Cocaine; Fluoxetine; Nucleus accumbens (Daunais, J.B. (50) 293)

α_2-Adrenergic receptor; α_2-Adrenoceptor; Caudate-putamen; Antisense; Adenosine cyclic 3′,5′-monophosphate (cAMP); Forskolin; Adenylyl cyclase (Lu, L. (52) 228)

Stroke
Brain injury; Heat-shock protein; Astrogliosis; Stress gene (Plumier, J.-C.L. (45) 239)

Hypoxic-ischemia; Cyclooxygenase-2; Neuroprotection; Programmed cell death; Microglia (Walton, M. (50) 165)

Stroke risk
Urokinase-type plasminogen activator; Plasminogen activator inhibitor-1; uPA mRNA and PAI-1 mRNA in mouse brain; Kainic acid; Limbic structure; Brain blood vessel; Hypothalamus (Masos, T. (47) 157)

Substance P
Haloperidol; Clozapine; Amperozide; Raclopride; Antidepressant drug; Serotonin; Somatostatin (Marcus, M.M. (45) 275)

Preprotachykinin A; Somatostatin; Suprachiasmatic nucleus; Coexistence; Hybridization, in situ (Shigeyoshi, Y. (48) 159)

Basal ganglia; Serotonergic lesion; Met-enkephalin; Immunocytochemistry; In situ hybridization histochemistry; Rat (Compan, V. (50) 246)

Substantia nigra
Seizure; Locus coeruleus; Ventral tegmentum area; Pentylenetetrazol; c-*fos*; Neurotransporter (Szot, P. (44) 46)

Tyrosinase; RT-PCR; Parkinson's disease; Gene expression; RNA (Xu, Y. (45) 159)

Striatum; Tyrosine hydroxylase; mRNA expression; Western blot analysis (Rodríguez-Gómez, J.A. (46) 31)

Dopamine transporter; Ovariectomy; Estradiol; Striatum; Nucleus accumbens; Ventral tegmental area; In situ hybridization (Bossé, R. (46) 343)

Ventral tegmental area; Dorsal raphe; Locus coeruleus; Cocaine; Transport; Hybridization, in situ (Burchett, S.A. (49) 95)

Dopamine transporter; Vesicular monoamine transporter; Amphetamine; Sensitization; Hybridization, in situ; Ventral tegmental area; Rat (Lu, W. (49) 137)

In situ hybridization histochemistry; Tyrosine hydroxylase mRNA; Dopamine; Noradrenaline; Ventral tegmental area; Locus coeruleus; Methamphetamine (Shishido, T. (52) 146)

β_2-Subtype
Interleukin-1β; Cytokine; Microglia; β-Adrenoceptor; Rat (Maruta, E. (49) 291)

α Subunit
Calcium-activated K^+ channel; BK channel; β Subunit; Differential expression; Channel diversity (Chang, C.-P. (45) 33)

α_1-Subunit
AMPA receptor; Glutamate receptor channel; Ion channel; Agonist-binding site; Site-directed mutagenesis; Baculovirus; Insect cell (Kawamoto, S. (47) 339)

α 3-Subunit
Nicotinic acetylcholine receptor; Development; Ventral cochlear nucleus; Trigeminal nucleus; Facial nucleus (Morley, B.J. (48) 407)

β Subunit
Calcium-activated K^+ channel; BK channel; α Subunit; Differential expression; Channel diversity (Chang, C.-P. (45) 33)

Sulperide
Schizophrenia; Serotonin receptor; Antipsychotic drug; mRNA; Clozapine; Haloperidol (Buckland, P.R. (48) 45)

Superoxide dismutase
Kainic acid; Transgenic mice; Free radical; Hippocampus; Nick translation, in situ (Hirata, H. (48) 145)

Dopamine; Norepinephrine; Monoamine oxidase inhibitor; Respiratory chain; Mechanism; Enzyme regulation; L-Deprenyl (Thiffault, C. (49) 127)

Superoxide dismutase (SOD)
Heat shock protein (HSP); Ubiquitin (UB); Cytochrome oxidase (COX); Anoxia; *Drosophila*; Slot blot; mRNA (Ma, E. (46) 325)

Supersensitivity
6-Hydroxydopamine; Priming; Dopamine agonist; AP-1; FosB; JunD; cFos (Vallone, D. (52) 307)

Suppression
Antisense; Immediate-early gene; Rotation; Basal ganglia (Hebb, M.O. (48) 97)

Suprachiasmatic nucleus
Circadian clock; cAMP response element binding protein; DNA binding; NMDAR1/ζ1; c-AMP-responsive element; Electro-mobility shift assay (Kako, K. (44) 39)

Circadian rhythm; Immediate-early gene; *nur77*; *zif268* (Lin, J.T. (46) 303)

Preprotachykinin A; Substance P; Somatostatin; Coexistence; Hybridization, in situ (Shigeyoshi, Y. (48) 159)

Circadian rhythm; Dopamine; Cocaine; Fetus; Transgenic (Bender, M. (49) 271)

Circadian rhythm; *c-fos*; Gene expression; Immediate-early gene; Melatonin; Light (Kumar, V. (52) 242)

Circadian rhythm; Homer mRNA; Immediate-early gene; In situ hybridization (Park, H.T. (52) 318)

Supraoptic nucleus
Hypothalamus; Glutamate; mRNA; NMDA; NR1; NR2; Double-labeling; Immunocytochemistry; Hybridization, in situ (Al-Ghoul, W.M. (44) 262)

Hypothalamus; Paraventricular nucleus; Vasopressin; Oxytocin; Neural plasticity; Obesity (Fetissov, S. (50) 314)

Cytokine-induced neutrophil chemoattractant; Chemokine; Hyperosmotic challenge; Stress (Koike, K. (52) 326)

Supraspinal
Antinociception; Antisense oligodeoxynucleotides; δ-Opioid receptor; [D-Ala^2]deltorphin II; mRNA (Lee, C.E. (48) 17)

Sympathetic nervous system
Nitric oxide synthase; Spontaneous hypertension; Hypothalamus; Paraventricular nucleus; Polymerase chain reaction; Hybridization, in situ (Plochocka-Zulinska, D. (48) 291)

Synapse
Frequenin; Ca^{2+}-binding protein; Hybridization, in situ; Immunocytochemistry; Astroglia (Olafsson, P. (44) 73)

Synapsin
Synaptic vesicle; Protein kinase A; CaM kinase II; SH3 domain; Actin; Monoclonal antibody; Epitope mapping; Peptide library (Vaccaro, P. (52) 1)

Synapsin I
Synaptic protein; SNAP-25; Oct-2 transcription factor; Transcriptional control (Deans, Z.C. (51) 1)

Synapsin II
Opiate tolerance; Morphine; In situ hybridization; Reverse transcriptase-polymerase chain reaction (RT-PCR); Regional distribution (Matus-Leibovitch, N. (45) 301)

Synaptic plasma membrane
GABA transport; Ca^{2+} regulation (Gonçalves, P.P. (51) 106)

Synaptic plasticity
Adenovirus; Hippocampus; Long-term potentiation (Griesbeck, O. (44) 171)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid type glutamate receptor; Phosphorylation; Post-synaptic density; Excitatory amino acid; Calcium/calmodulin-dependent protein kinase (Hayashi, Y. (46) 338)

Synaptic protein
SNAP-25; Synapsin I; Oct-2 transcription factor; Transcriptional control (Deans, Z.C. (51) 1)

Synaptic vesicle
Synapsin; Protein kinase A; CaM kinase II; SH3 domain; Actin; Monoclonal antibody; Epitope mapping; Peptide library (Vaccaro, P. (52) 1)

Synaptogenesis
Clathrin assembly protein; Growth cone; RT–PCR; Synaptophysin; GAP-43 (Ishihara-Sugano, M. (52) 290)

Synaptophysin
Clathrin assembly protein; Synaptogenesis; Growth cone; RT–PCR; GAP-43 (Ishihara-Sugano, M. (52) 290)

Synergistic activation
Phenylethanolamine *N*-methyltransferase (PNMT); Adrenergic expression; Transcriptional control; Sodium butyrate; Dexamethasone (Ebert, S.N. (47) 24)

Synthesis regulation
Chromogranin A; Chromogranin B; Secretogranin II; Enkephalin; Neuropeptide Y; Kainic acid; Epilepsy (Tsunashima, K. (51) 42)

Systematic sequencing
Cochlea cDNA library; RT-PCR; Hybridization, in situ; Novel gene; pCO8; drk1 (Soto-Prior, A. (47) 1)

T

Tachykinin
Sodium appetite; Sodium depletion; Preprotachykinin-A; Preprotachykinin-B (Pompei, P. (49) 149)

Taste bud
γ-Aminobutyric acid (GABA); Transporter; Immunocytochemistry; Gustatory; Tongue (Obata, H. (49) 29)

Taurine transporter
Na^+/*myo*-inositol cotransporter; Hybridization, in situ; Hyperosmolality; Eye (Morimura, H. (44) 245)

Tellurium
Demyelination; Macrophage; NGF receptor; Peripheral neuropathy (Toews, A.D. (49) 113)

Temporal lobe epilepsy
PKCα; PKCβ; PKCγ; PKCδ; Neuronal plasticity; mRNA (Guglielmetti, F. (49) 188)

Tensor fascia latae motor pool
Muscle activation history; Phrenic; Soleus; Extensor digitorum longus (Blanco, C.E. (44) 253)

Testis
Neuron; Cerebral cortex; Gene expression; Promoter; Gene discovery; CpG island; Transmembrane protein (Herbst, R. (44) 309)

Δ^9-Tetrahydrocannabinol
Cannabinoid receptor binding; Cannabinoid receptor mRNA levels; Autoradiography; Northern blot (Romero, J. (46) 100)

TGF-β type II receptor
hNT cell; β-Amyloid peptide; Alzheimer's disease; Neuroprotection; Transforming growth factor-β (Ren, R.F. (48) 315)

THDOC
$GABA_A$ receptor; Neurosteroid; Pregnenolone sulfate; Phosphorylation; PKC; Phorbol esters; Staurosporine; *Xenopus* oocyte (Leidenheimer, N.J. (52) 173)

Thirst
Antisense oligonucleotide; Angiotensinogen; Angiotensin II; Isoproterenol; Renin; Water intake (Sinnayah, P. (50) 43)

Thymus
MCH; NEI; Chromosome 12q23; Neuropeptide gene expression; Hypothalamus; Brown adipose tissue; Differential processing (Viale, A. (46) 243)

Thyroid C cell
Glucocorticoid; Serotonin; Melatonin; Tryptophan hydroxylase; Parafollicular cell; Competitive RT-PCR (Clark, M.S. (48) 346)

Thyroid gland
RC3/neurogranin; Brain gene expression; Hybridization, in situ; T3 receptor; Developmental regulation; Epigenetic factor (Guadaño-Ferraz, A. (49) 37)

Thyroid hormone
Galanin; Gene expression; Pituitary; Hypothalamus (Hooi, S.C. (51) 15)

NGF; BDNF; Neurotrophin receptor; Pituitary gland; Rat (Calzà, L. (51) 60)

TIMP-2
Neuroblastoma; Ciliary neurotrophic factor (CNTF); MMP-2 (Negro, A. (48) 30)

Tin-mesoporphyrin-9
Carbon monoxide; Heme oxygenase; Hemin; Zinc-protoporphyrin-9; Hemoglobin; Biliverdin; Prostaglandin E2; Prostaglandin endoperoxide synthase; Dexamethasone; Hypothalamus, rat; Astrocyte (Mancuso, C. (45) 294)

Tissue culture
Protein kinase A; Protein kinase C; Gene activation; Tyrosine hydroxylase; Catecholamine differentiation; Fibroblast growth factor (Du, X. (50) 1)

Tissue-specific gene expression
Neurofilament; Transcription, in vitro; NF-1; SP1; Chromatin (Schwartz, M.L. (48) 305)

Tongue
γ-Aminobutyric acid (GABA); Transporter; Taste bud; Immunocytochemistry; Gustatory (Obata, H. (49) 29)

Topographic projection
Eph family receptor; Hybridization, in situ; Neurogenesis; Limbic system; Axonal guidance (Zhang, J.-H. (47) 202)

Topology
Tyrosine hydroxylase; mRNA; Locus coeruleus; Dendrite; Ontogeny; Immunoautoradiography (Bezin, L. (50) 23)

Torpedo
Nicotinic acetylcholine receptor; Lysophosphatidylcholine; Lysophosphatidylethanolamine; Protein kinase C; Voltage-clamp (Ikeuchi, Y. (45) 317)

Toxicity
Excitatory amino acid; Heat-shock protein; Vacuole; *N*-Methyl-D-aspartate (NMDA); AMPA (Lan, J.Q. (46) 297)

Toxin binding site
N-Glycosylation; ACh receptor; *Xenopus* oocyte; Assembly (Gehle, V.M. (45) 219)

Transactivation
Human choline acetyltransferase; Promoter; NGFI-A; NGFI-C; AP2 dbcAMP (Quirin-Stricker, C. (49) 165)

Transcription
DNA–protein interaction; Aging; Neurodegenerative disease; Parkinson's; Huntington's; Motor control; Striatum (Chernak, J.M. (44) 113)

Glutamate receptor; NMDAR-1; NGFI-A; Early growth response (EGR); Pentylenetetrazol (Jensen, P.J. (44) 157)

Development; Ion channel; Hybridization, in situ (Felts, P.A. (45) 71)

S100; Luciferase; Glia; Promoter (Castets, F. (46) 208)

Fibroblast growth factor; Tyrosine hydroxylase; PC12 cells; AP-1; Nerve growth factor (Osaka, H. (49) 222)

Tyrosine hydroxylase; Gene expression; Promoter; Transgene (Liu, J. (50) 33)

Transcriptional control
Phenylethanolamine *N*-methyltransferase (PNMT); Adrenergic expression; Sodium butyrate; Dexamethasone; Synergistic activation (Ebert, S.N. (47) 24)

Synaptic protein; SNAP-25; Synapsin I; Oct-2 transcription factor (Deans, Z.C. (51) 1)

Transcriptional regulation
PC12; Tyrosine hydroxylase; CRE; Protein kinase A; Adenosine receptor (Chae, H.-D. (44) 31)

Tyrosine hydroxylase; DNA methylation; Bisulfite sequencing; cAMP response element binding protein; DNA–protein interaction; Gene silencing; Neuronal differentiation (Okuse, K. (46) 197)

Opioid receptor; AP-1; Electrophoretic mobility-shift assay; Down-regulation; Up-regulation (Tencheva, Z.S. (48) 156)

Gonadotropin-releasing hormone; GT1-1 cell; Autocrine regulation (Cho, S. (50) 51)

Transcription factor
AP-1; NMDA receptor; Striatum; Nerve growth factor (Hollen, K.M. (47) 31)

Basement membrane; DNA-binding protein (Kedar, V. (47) 87)

Lithium; Bipolar disorder; AP-1; NF-κB; Cholinergic stimulation (Jope, R.S. (50) 171)

Oxidative stress; Brain derived neurotrophic factor; Cell viability; DNA binding activity; Culture; Neuron; Glia (Iwata, E. (50) 213)

Transcription, in vitro
Neurofilament; NF-1; SP1; Tissue-specific gene expression; Chromatin (Schwartz, M.L. (48) 305)

Transcription regulation
Brain-derived neurotrophic factor; Neurotrophic; Calcium; C6 glioma cell (Bishop, J.F. (50) 154)

Transcriptonal regulation
Epilepsy; Gene promoter; Kindling; γ-Aminobutyric acid; Transgenic mouse (Penschuck, S. (51) 212)

Transfection
Molecular cloning; Human; Dopamine; Melanin; Aging (Yamada, M. (44) 12)

Astrocyte; HEK293 cell; Neurotrophin; Cell-free RNA decay; mRNA half-life; RNA-binding protein (Tang, B. (46) 118)

Neuron-specific gene expression; Transgenic mouse; $GABA_A$ receptor; Primary culture (Lüscher, B. (51) 197)

PC12 cell; Norepinephrine transporter; Rat; Cloning; Glycosylation; Protein kinase C; Casein kinase II (Brüss, M. (52) 257)

Transforming growth factor-β
hNT cell; β-Amyloid peptide; Alzheimer's disease; Neuroprotection; TGF-β type II receptor (Ren, R.F. (48) 315)

Transgene
Tyrosine hydroxylase; Gene expression; Promoter; Transcription (Liu, J. (50) 33)

Transgenic
Suprachiasmatic nucleus; Circadian rhythm; Dopamine; Cocaine; Fetus (Bender, M. (49) 271)

Transgenic mice
Kainic acid; Superoxide dismutase; Free radical; Hippocampus; Nick translation, in situ (Hirata, H. (48) 145)

Transgenic mouse
Alzheimer's disease; Amyloid precursor protein; FAD mutation; βA4 (Czech, C. (47) 108)

Neuron-specific gene expression; $GABA_A$ receptor; Primary culture; Transfection (Lüscher, B. (51) 197)

Epilepsy; Transcriptonal regulation; Gene promoter; Kindling; γ-Aminobutyric acid (Penschuck, S. (51) 212)

Arrestin; Phosducin; Pinealocyte; Brain; β-Gal expression (Sunayashiki-Kusuzaki, K. (52) 112)

AMPA receptor; Focal ischemia; Excitotoxicity; Animal model; GluR2-flip (Le, D. (52) 235)

Transient expression
Brain-derived neurotrophic factor; Promoter; Sequence; Primary cortico-hippocampal culture; Luciferase (Hayes, V.Y. (45) 189)

Translation
Guinea-pig; Preproenkephalin mRNA; 3′ untranslated region (LaForge, K.S. (46) 169)

Translation efficiency
Choline acetyltransferase; Human brain; cDNA cloning; Alternative splicing; Initiation codon (Misawa, H. (44) 323)

Transmembrane protein
Neuron; Testis; Cerebral cortex; Gene expression; Promoter; Gene discovery; CpG island (Herbst, R. (44) 309)

Transmembrane signalling
F3; Axonal glycoprotein; Cell adhesion; Immunoglobulin superfamily; Neural-specific promoter; Nuclear protein (Cangiano, G. (48) 279)

Transplantation
Retroviral vector; *Drosophila* choline acetyltransferase; Dexamethasone; Cytokine (Schinstine, M. (47) 195)

Transport
Amino-acid neurotransmitter; Neuronal culture; Glycine (Poyatos, I. (49) 63)

Ventral tegmental area; Substantia nigra; Dorsal raphe; Locus coeruleus; Cocaine; Hybridization, in situ (Burchett, S.A. (49) 95)

Transporter
Serotonin; Estradiol; Luteinizing hormone; Rat; Affective disorder (McQueen, J.K. (45) 13)

γ-Aminobutyric acid (GABA); Taste bud; Immunocytochemistry; Gustatory; Tongue (Obata, H. (49) 29)

Trauma
$InsP_4$ receptor; Retina; Hybridization, in situ; Immunocytochemistry; Optic nerve crush; Inositol 1,3,4,5-tetrakisphosphate; Ca^{2+} (Kreutz, M.R. (45) 283)

Traumatic brain injury
Lateral fluid percussion; Brain-derived neurotrophic factor; Neurotrophin-3; Hybridization, in situ; Neuronal plasticity (Hicks, R.R. (48) 401)

Complement; Chemotactic receptor; Neuron (Stahel, P.F. (50) 205)

T3 receptor
RC3/neurogranin; Brain gene expression; Hybridization, in situ; Developmental regulation; Epigenetic factor; Thyroid gland (Guadaño-Ferraz, A. (49) 37)

Trifluoperazine
Apoptosis; Protein kinase C; Bcl-2; Bcl-X_L; Bax; Staurosporine; Calphostin C (Oh, Y.J. (51) 133)

Trigeminal ganglion
Cytokine; Cytokine receptor; IL-6; gp130; JAK; Pathway (Mizuno, M. (44) 163)

Neuropeptide Y receptor; Hybridization, in situ; Rat; Hippocampus; Hypothalamus (Gustafson, E.L. (46) 223)

Trigeminal nucleus
Nicotinic acetylcholine receptor; α3-Subunit; Development; Ventral cochlear nucleus; Facial nucleus (Morley, B.J. (48) 407)

Triglyceride
Rabbit; Retinal ganglion cell; Vitreous; Alzheimer's disease; Cholesterol (Shanmugaratnam, J. (50) 113)

TrkA
Hybridization, in situ; Neurotrophin; TrkB; TrkC; VGF (Snyder, S.E. (49) 307)

TrkB
Hybridization, in situ; Neurotrophin; TrkA; TrkC; VGF (Snyder, S.E. (49) 307)

TrkC
Hybridization, in situ; Neurotrophin; TrkA; TrkB; VGF (Snyder, S.E. (49) 307)

Tropane
Serotonin; Preprodynorphin; Preproenkephalin; Cocaine; Fluoxetine; Striatum; Nucleus accumbens (Daunais, J.B. (50) 293)

Tryptamine
5-HT_{2A} receptor; Mutation; [^{3}H]Ketanserin; [^{125}I]DOI; 5-Methoxytryptamine (Johnson, M.P. (49) 1)

Tryptophan hydroxylase
Polymorphism; Serotonin; Polymerase chain reaction; Intron; Splicing; Linkage disequilibrium; Reverse transcription (Nielsen, D.A. (45) 145)

Glucocorticoid; Serotonin; Melatonin; Thyroid C cell; Parafollicular cell; Competitive RT-PCR (Clark, M.S. (48) 346)

Tubulin
Huntington's disease; Huntingtin; Polyglutamine; CAG repeat; Microtubule; Glyceraldehyde-3-phosphate dehydrogenase; Calmodulin (Tukamoto, T. (51) 8)

Two-hybrid
Brain-4; hnRNP U; POU protein (Malik, K.F. (45) 99)

Type 2 interleukin-1 receptor
Kainic acid; Hybridization, in situ; Rat; Central nervous system; Convulsion; Interleukin-1 (Nishiyori, A. (50) 237)

Tyrosinase
RT-PCR; Substantia nigra; Parkinson's disease; Gene expression; RNA (Xu, Y. (45) 159)

Tyrosine hydroxylase
PC12; CRE; Protein kinase A; Adenosine receptor; Transcriptional regulation (Chae, H.-D. (44) 31)

Deprenyl; MDL72974; Neurorescue; Monoamine oxidase; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Thiffault, C. (44) 238)

Dopamine; Animal model; Rat strain; Outbreeding/inbreeding; DNA polymorphism (Murru, S. (45) 345)

Striatum; Substantia nigra; mRNA expression; Western blot analysis (Rodríguez-Gómez, J.A. (46) 31)

DNA methylation; Bisulfite sequencing; cAMP response element binding protein; DNA–protein interaction; Gene silencing; Neuronal differentiation; Transcriptional regulation (Okuse, K. (46) 197)

Norepinephrine transporter; Neuropeptide Y; Dopamine β-hydroxylase; Hybridization, in situ; Medulla oblongata; Brainstem; Rabbit (Pau, K.-Y.F. (48) 367)

Fibroblast growth factor; PC12 cells; Transcription; AP-1; Nerve growth factor (Osaka, H. (49) 222)

Protein kinase A; Protein kinase C; Tissue culture; Gene activation; Catecholamine differentiation; Fibroblast growth factor (Du, X. (50) 1)

mRNA; Locus coeruleus; Dendrite; Ontogeny; Immunoautoradiography; Topology (Bezin, L. (50) 23)

Gene expression; Promoter; Transgene; Transcription (Liu, J. (50) 33)

Galanin; Locus ceruleus; Estradiol (Tseng, J.Y. (50) 100)

Melanin-concentrating hormone; Neurotensin; mRNA stability; Gene transcription; Lithium; Glucocorticoids; PC12 cells (Presse, F. (52) 270)

Tyrosine hydroxylase mRNA
In situ hybridization histochemistry; Dopamine; Noradrenaline; Substantia nigra; Ventral tegmental area; Locus coeruleus; Methamphetamine (Shishido, T. (52) 146)

Tyrosine phosphorylation
Amyloid precursor protein; Neurotrophic activity; Nerve growth factor; Insulin receptor substrate-1; Growth factor potentiation (Wallace, W.C. (52) 213)

U

Ubiquitin (UB)
Heat shock protein (HSP); Superoxide dismutase (SOD); Cytochrome oxidase (COX); Anoxia; *Drosophila*; Slot blot; mRNA (Ma, E. (46) 325)

Unc-33-like cDNA
Gene expression; Brain specificity; Anti-CV2-autoantibody; Paraneoplastic neurological syndrome (Quach, T.T. (46) 329)

3′ untranslated region
Guinea-pig; Preproenkephalin mRNA; Translation (LaForge, K.S. (46) 169)

3′-Untranslated region
Seizure-related gene; PTZ-17; Calcium entry; Seizure susceptibility; Pentylenetetrazol; Post-transcriptional regulation; Mouse strain (Kajiwara, K. (47) 49)

Up-regulation
PACAP; Mesencephalic trigeminal nucleus; Hybridization, in situ; Immunohistochemistry; Proprioceptive neuron; Peripheral axotomy; Co-existence (Oemar Larsen, J. (46) 109)

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Corticosteroid
Cognition; Receptor; Animal; Human (Lupien, S.J. (24) 1)

Corticotropin-releasing hormone
Bromodeoxyuridine; Dopamine; Growth hormone-releasing hormone; Hypothalamus; Neuroendocrine; Parvicellular neurosecretory; Somatostatin; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

Cystatin C
Alzheimer's disease; β-Amyloid; Vascular; Transgenic mice; Stroke (Walker, L.C. (25) 70)

D

Defensive behavior
Basal ganglia; Hippocampus; Hypothalamus; Limbic system; Motivated behavior (Risold, P.Y. (24) 115)

Depression
Serotonin; Noradrenaline; Antidepressant drug; Electroconvulsive shocks treatment; Locus coeruleus; Raphe nucleus; Hippocampal formation (Mongeau, R. (23) 145)

Development
Transcription factor; AP-1; c-Fos; Zif268; Neocortex (Kaczmarek, L. (23) 237)

Growth factor; Neurotrophic; Neuroprotection; Neurotransmission; Neoplasia; Neurotoxicity; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Diabetic complication
Blood–brain barrier; Cognition (Mooradian, A.D. (23) 210)

Diaschisis
Recovery; Stroke; Motor cortex; Localization (Steinberg, B.A. (25) 125)

Dopamine
Bromodeoxyuridine; Corticotropin-releasing hormone; Growth hormone-releasing hormone; Hypothalamus; Neuroendocrine; Parvicellular neurosecretory; Somatostatin; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

Behavioral sensitization; Excitatory amino acid; Glutamate; Drug abuse; Relapse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

Dopamine synthesis
Blood pressure regulation; Brain function; Cadmium poisoning; Calcium/calmodulin; Epilepsy; Epileptic mice (El mice); Exercise; Hypertension; Spontaneously hypertensive rats (SHR) (Sutoo, D. (25) 1)

Dorsal horn
Muscle afferent; Substance P; Somatostatin; Excitatory amino acid; Neuropeptide; Exercise (Wilson, L.B. (23) 196)

Drug
Blood–brain barrier; Transport; Methodology; Microdialysis (De Lange, E.C.M. (25) 27)

Drug abuse
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Relapse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

E

Electroconvulsive shocks treatment
Serotonin; Noradrenaline; Depression; Antidepressant drug; Locus coeruleus; Raphe nucleus; Hippocampal formation (Mongeau, R. (23) 145)

Epilepsy
Blood pressure regulation; Brain function; Cadmium poisoning; Calcium/calmodulin; Dopamine synthesis; Epileptic mice (El mice); Exercise; Hypertension; Spontaneously hypertensive rats (SHR) (Sutoo, D. (25) 1)

Epileptic mice (El mice)
Blood pressure regulation; Brain function; Cadmium poisoning; Calcium/calmodulin; Dopamine synthesis; Epilepsy; Exercise; Hypertension; Spontaneously hypertensive rats (SHR) (Sutoo, D. (25) 1)

Excitatory amino acid
Muscle afferent; Substance P; Somatostatin; Dorsal horn; Neuropeptide; Exercise (Wilson, L.B. (23) 196)

Behavioral sensitization; Dopamine; Glutamate; Drug abuse; Relapse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

Exercise
Muscle afferent; Substance P; Somatostatin; Excitatory amino acid; Dorsal horn; Neuropeptide (Wilson, L.B. (23) 196)

Blood pressure regulation; Brain function; Cadmium poisoning; Calcium/calmodulin; Dopamine synthesis; Epilepsy; Epileptic mice (El

mice); Hypertension; Spontaneously hypertensive rats (SHR) (Sutoo, D. (25) 1)

F

Female
Limbic system; Male; Hormone; ACh (Aloisi, A.M. (25) 397)

Fluid balance
Brain renin-angiotensin; Receptor subtype; Receptor distribution; Tachyphylaxis; Cardiovascular effect; Learning and memory; Long term potentiation (Wright, J.W. (25) 96)

c-Fos
Transcription factor; AP-1; Zif268; Neocortex; Development (Kaczmarek, L. (23) 237)

G

Globus pallidus
Basal ganglia; Subthalamic nucleus; Indirect pathways; Basal ganglia–thalamocortical circuitry; Primate; Huntington's disease (Joel, D. (23) 62)

Glutamate
Behavioral sensitization; Dopamine; Excitatory amino acid; Drug abuse; Relapse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

Glutathione
Aging; ALS; Alzheimer; Neurotransmitter; Oxidative stress; Parkinson (Bains, J.S. (25) 335)

Growth cone
Laminin; Laminin isoform; Integrin receptor; Neuronal pathfinding; Synapse formation; Alzheimer's disease; Nerve regeneration (Luckenbill-Edds, L. (23) 1)

Growth factor
Neurotrophic; Neuroprotection; Development; Neurotransmission; Neoplasia; Neurotoxicity; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Growth hormone-releasing hormone
Bromodeoxyuridine; Corticotropin-releasing hormone; Dopamine; Hypothalamus; Neuroendocrine; Parvicellular neurosecretory; Somatostatin; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

H

Herpesviridae
Jaw; Oral motor; Neural pathway; Motor control; Transneuronal (Fay, R.A. (25) 255)

Labial; Oral motor; Neural pathway; Motor control; Transneuronal (Fay, R.A. (25) 276)

Tongue; Oral motor; Neural pathway; Transneuronal; Motor control (Fay, R.A. (25) 291)

Hippocampal formation
Serotonin; Noradrenaline; Depression; Antidepressant drug; Electroconvulsive shocks treatment; Locus coeruleus; Raphe nucleus (Mongeau, R. (23) 145)

Hippocampus
Basal ganglia; Defensive behavior; Hypothalamus; Limbic system; Motivated behavior (Risold, P.Y. (24) 115)

Amygdala; Prefrontal region; Septal region; Thalamus; Homeostasis; Instinctive behavior (Risold, P.Y. (24) 197)

Alzheimer's disease; Amyloid precursor protein; β-amyloid; Cholinergic; Muscarinic receptor; Nucleus basalis of Meynert; Basal forebrain (Roberson, M.R. (25) 50)

Alzheimer's disease; Amyloid; Brain aging; Centenarian; Clinicopathologic correlation; Neocortex; Neurofibrillary tangle (Giannakopoulos, P. (25) 217)

Homeostasis
Amygdala; Hippocampus; Prefrontal region; Septal region; Thalamus; Instinctive behavior (Risold, P.Y. (24) 197)

Hormone
Limbic system; Male; Female; ACh (Aloisi, A.M. (25) 397)

Human
Corticosteroid; Cognition; Receptor; Animal (Lupien, S.J. (24) 1)

Huntington's disease
Basal ganglia; Subthalamic nucleus; Globus pallidus; Indirect pathways; Basal ganglia–thalamocortical circuitry; Primate (Joel, D. (23) 62)

Hypertension
Blood pressure regulation; Brain function; Cadmium poisoning; Calcium/calmodulin; Dopamine synthesis; Epilepsy; Epileptic mice (El mice); Exercise; Spontaneously hypertensive rats (SHR) (Sutoo, D. (25) 1)

Hypothalamus
Basal ganglia; Defensive behavior; Hippocampus; Limbic system; Motivated behavior (Risold, P.Y. (24) 115)

Bromodeoxyuridine; Corticotropin-releasing hormone; Dopamine; Growth hormone-releasing hormone; Neuroendocrine; Parvicellular neurosecretory; Somatostatin; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

I

Indirect pathways
Basal ganglia; Subthalamic nucleus; Globus pallidus; Basal ganglia–thalamocortical circuitry; Primate; Huntington's disease (Joel, D. (23) 62)

Inflammatory cytokine
Amyloid precursor protein; Astrocyte; Calcium; Microglial cell; Reactive oxygen species; Transforming growth factor; Tumor necrosis factor (Mattson, M.P. (23) 47)

Inositol (1,4,5) trisphosphate
Alzheimer's disease; Signal transduction; Protein kinase C; Oxidative stress; β-Amyloid (Fowler, C.J. (25) 373)

Instinctive behavior
Amygdala; Hippocampus; Prefrontal region; Septal region; Thalamus; Homeostasis (Risold, P.Y. (24) 197)

Integrin receptor
Laminin; Laminin isoform; Growth cone; Neuronal pathfinding; Synapse formation; Alzheimer's disease; Nerve regeneration (Luckenbill-Edds, L. (23) 1)

J

Jaw
Oral motor; Neural pathway; Motor control; Transneuronal; Herpesviridae (Fay, R.A. (25) 255)

L

Labial
Oral motor; Neural pathway; Motor control; Transneuronal; Herpesviridae (Fay, R.A. (25) 276)

Laminin
Laminin isoform; Integrin receptor; Growth cone; Neuronal pathfinding; Synapse formation; Alzheimer's disease; Nerve regeneration (Luckenbill-Edds, L. (23) 1)

Laminin isoform
Laminin; Integrin receptor; Growth cone; Neuronal pathfinding; Synapse formation; Alzheimer's disease; Nerve regeneration (Luckenbill-Edds, L. (23) 1)

Language
Brain evolution; Broca's area; Parietal lobe; Prefrontal cortex; Temporal lobe; Syntax; Wernicke's area; Working memory (Aboitiz, F. (25) 381)

Learning and memory
Brain renin-angiotensin; Receptor subtype; Receptor distribution; Tachyphylaxis; Cardiovascular effect; Fluid balance; Long term potentiation (Wright, J.W. (25) 96)

Limbic system
Basal ganglia; Neuropeptide; Neurotransmitter; Steroid receptor (Risold, P.Y. (24) 91)

Basal ganglia; Defensive behavior; Hippocampus; Hypothalamus; Motivated behavior (Risold, P.Y. (24) 115)

Male; Female; Hormone; ACh (Aloisi, A.M. (25) 397)

Localisation of ligand binding sites
Nicotinic acetylcholine receptor; Agonist binding sites; Antagonist binding sites; Non-competitive agonist binding site; Luminal and non-luminal non-competitive binding sites; Agonist self-inhibitory binding site (Arias, H.R. (25) 133)

Localization
Recovery; Stroke; Motor cortex; Diaschisis (Steinberg, B.A. (25) 125)

Locus coeruleus
Serotonin; Noradrenaline; Depression; Antidepressant drug; Electroconvulsive shocks treatment; Raphe nucleus; Hippocampal formation (Mongeau, R. (23) 145)

Long term potentiation
Brain renin-angiotensin; Receptor subtype; Receptor distribution; Tachyphylaxis; Cardiovascular effect; Fluid balance; Learning and memory (Wright, J.W. (25) 96)

Luminal and non-luminal non-competitive binding sites
Nicotinic acetylcholine receptor; Localisation of ligand binding sites; Agonist binding sites; Antagonist binding sites; Non-competitive agonist binding site; Agonist self-inhibitory binding site (Arias, H.R. (25) 133)

M

Maintained depolarization
Neurotransmitter receptor; Voltage-dependent cationic current; Mammalian neuron (Delmas, P. (25) 246)

Male
Limbic system; Female; Hormone; ACh (Aloisi, A.M. (25) 397)

Mammalian neuron
Neurotransmitter receptor; Voltage-dependent cationic current; Maintained depolarization (Delmas, P. (25) 246)

Methodology
Blood–brain barrier; Transport; Drug; Microdialysis (De Lange, E.C.M. (25) 27)

Microdialysis
Blood–brain barrier; Transport; Drug; Methodology (De Lange, E.C.M. (25) 27)

Microglial cell
Amyloid precursor protein; Astrocyte; Calcium; Inflammatory cytokine; Reactive oxygen species; Transforming growth factor; Tumor necrosis factor (Mattson, M.P. (23) 47)

Motivated behavior
Basal ganglia; Defensive behavior; Hippocampus; Hypothalamus; Limbic system (Risold, P.Y. (24) 115)

Motor control
Jaw; Oral motor; Neural pathway; Transneuronal; Herpesviridae (Fay, R.A. (25) 255)

Labial; Oral motor; Neural pathway; Transneuronal; Herpesviridae (Fay, R.A. (25) 276)

Tongue; Oral motor; Neural pathway; Transneuronal; Herpesviridae (Fay, R.A. (25) 291)

Motor cortex
Recovery; Stroke; Localization; Diaschisis (Steinberg, B.A. (25) 125)

Muscarinic receptor
Alzheimer's disease; Amyloid precursor protein; β-amyloid; Cholinergic; Hippocampus; Nucleus basalis of Meynert; Basal forebrain (Roberson, M.R. (25) 50)

Muscle afferent
Substance P; Somatostatin; Excitatory amino acid; Dorsal horn; Neuropeptide; Exercise (Wilson, L.B. (23) 196)

N

Neocortex
Transcription factor; AP-1; c-Fos; Zif268; Development (Kaczmarek, L. (23) 237)

Alzheimer's disease; Amyloid; Brain aging; Centenarian; Clinicopathologic correlation; Hippocampus; Neurofibrillary tangle (Giannakopoulos, P. (25) 217)

Neoplasia
Growth factor; Neurotrophic; Neuroprotection; Development; Neurotransmission; Neurotoxicity; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Nerve regeneration
Laminin; Laminin isoform; Integrin receptor; Growth cone; Neuronal pathfinding; Synapse formation; Alzheimer's disease (Luckenbill-Edds, L. (23) 1)

Neural pathway
Jaw; Oral motor; Motor control; Transneuronal; Herpesviridae (Fay, R.A. (25) 255)

Labial; Oral motor; Motor control; Transneuronal; Herpesviridae (Fay, R.A. (25) 276)

Tongue; Oral motor; Transneuronal; Motor control; Herpesviridae (Fay, R.A. (25) 291)

Neurodegeneration
Advanced glycation end product; Oxidative stress; Alzheimer's disease; Plaque; Tangle; Neurotoxicity (Münch, G. (23) 134)

Neuroendocrine
Bromodeoxyuridine; Corticotropin-releasing hormone; Dopamine; Growth hormone-releasing hormone; Hypothalamus; Parvicellular neurosecretory; Somatostatin; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

Neurofibrillary tangle
Alzheimer's disease; Amyloid; Brain aging; Centenarian; Clinicopathologic correlation; Hippocampus; Neocortex (Giannakopoulos, P. (25) 217)

Neuronal cell death
Thrombin; Serine proteases; Brain; Pathology; Alzheimer's disease (Turgeon, V.L. (25) 85)

Neuronal pathfinding
Laminin; Laminin isoform; Integrin receptor; Growth cone; Synapse formation; Alzheimer's disease; Nerve regeneration (Luckenbill-Edds, L. (23) 1)

Neuropeptide
Muscle afferent; Substance P; Somatostatin; Excitatory amino acid; Dorsal horn; Exercise (Wilson, L.B. (23) 196)

Basal ganglia; Neurotransmitter; Steroid receptor; Limbic system (Risold, P.Y. (24) 91)

Neuroprotection
Growth factor; Neurotrophic; Development; Neurotransmission; Neoplasia; Neurotoxicity; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Neurotoxicity
Advanced glycation end product; Neurodegeneration; Oxidative stress; Alzheimer's disease; Plaque; Tangle (Münch, G. (23) 134)

Growth factor; Neurotrophic; Neuroprotection; Development; Neurotransmission; Neoplasia; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Neurotransmission
Growth factor; Neurotrophic; Neuroprotection; Development; Neoplasia; Neurotoxicity; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Neurotransmitter
Basal ganglia; Neuropeptide; Steroid receptor; Limbic system (Risold, P.Y. (24) 91)

Aging; ALS; Alzheimer; Glutathione; Oxidative stress; Parkinson (Bains, J.S. (25) 335)

Neurotransmitter receptor
Voltage-dependent cationic current; Maintained depolarization; Mammalian neuron (Delmas, P. (25) 246)

Neurotrophic
Growth factor; Neuroprotection; Development; Neurotransmission; Neoplasia; Neurotoxicity; Tyrosine kinase (Valenzuela, C.F. (24) 77)

Nicotinic acetylcholine receptor
Localisation of ligand binding sites; Agonist binding sites; Antagonist binding sites; Non-competitive agonist binding site; Luminal and non-luminal non-competitive binding sites; Agonist self-inhibitory binding site (Arias, H.R. (25) 133)

Nociception
Peptide; Amino acid; Pain (Coggeshall, R.E. (24) 28)

Non-competitive agonist binding site
Nicotinic acetylcholine receptor; Localisation of ligand binding sites; Agonist binding sites;

Antagonist binding sites; Luminal and non-luminal non-competitive binding sites; Agonist self-inhibitory binding site (Arias, H.R. (25) 133)

Noradrenaline
Serotonin; Depression; Antidepressant drug; Electroconvulsive shocks treatment; Locus coeruleus; Raphe nucleus; Hippocampal formation (Mongeau, R. (23) 145)

Nucleus accumbens
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Drug abuse; Relapse; Schizophrenia; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

Nucleus basalis of Meynert
Alzheimer's disease; Amyloid precursor protein; β-amyloid; Cholinergic; Hippocampus; Muscarinic receptor; Basal forebrain (Roberson, M.R. (25) 50)

O

Oral motor
Jaw; Neural pathway; Motor control; Transneuronal; Herpesviridae (Fay, R.A. (25) 255)

Labial; Neural pathway; Motor control; Transneuronal; Herpesviridae (Fay, R.A. (25) 276)

Tongue; Neural pathway; Transneuronal; Motor control; Herpesviridae (Fay, R.A. (25) 291)

Oxidative stress
Advanced glycation end product; Neurodegeneration; Alzheimer's disease; Plaque; Tangle; Neurotoxicity (Münch, G. (23) 134)

Aging; ALS; Alzheimer; Glutathione; Neurotransmitter; Parkinson (Bains, J.S. (25) 335)

Alzheimer's disease; Signal transduction; Inositol (1,4,5) trisphosphate; Protein kinase C; β-Amyloid (Fowler, C.J. (25) 373)

P

Pain
Peptide; Amino acid; Nociception (Coggeshall, R.E. (24) 28)

Parietal lobe
Brain evolution; Broca's area; Language; Prefrontal cortex; Temporal lobe; Syntax; Wernicke's area; Working memory (Aboitiz, F. (25) 381)

Parkinson
Aging; ALS; Alzheimer; Glutathione; Neurotransmitter; Oxidative stress (Bains, J.S. (25) 335)

Parvicellular neurosecretory
Bromodeoxyuridine; Corticotropin-releasing hormone; Dopamine; Growth hormone-releasing hormone; Hypothalamus; Neuroendocrine; Somatostatin; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

Pathology
Thrombin; Serine proteases; Brain; Neuronal cell death; Alzheimer's disease (Turgeon, V.L. (25) 85)

Peptide
Amino acid; Pain; Nociception (Coggeshall, R.E. (24) 28)

Plaque
Advanced glycation end product; Neurodegeneration; Oxidative stress; Alzheimer's disease; Tangle; Neurotoxicity (Münch, G. (23) 134)

Plateau potential
Ventral tegmental area; Substantia nigra pars compacta; Slow EPSP; Calcium activated potassium conductance; Rat (Overton, P.G. (25) 312)

Prefrontal cortex
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Drug abuse; Relapse; Schizophrenia; Nucleus accumbens; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

Brain evolution; Broca's area; Language; Parietal lobe; Temporal lobe; Syntax; Wernicke's area; Working memory (Aboitiz, F. (25) 381)

Prefrontal region
Amygdala; Hippocampus; Septal region; Thalamus; Homeostasis; Instinctive behavior (Risold, P.Y. (24) 197)

Primate
Basal ganglia; Subthalamic nucleus; Globus pallidus; Indirect pathways; Basal ganglia–thalamocortical circuitry; Huntington's disease (Joel, D. (23) 62)

Protein kinase C
Alzheimer's disease; Signal transduction; Inositol (1,4,5) trisphosphate; Oxidative stress; β-Amyloid (Fowler, C.J. (25) 373)

R

Raphe nucleus
Serotonin; Noradrenaline; Depression; Antidepressant drug; Electroconvulsive shocks treatment; Locus coeruleus; Hippocampal formation (Mongeau, R. (23) 145)

Rat
Ventral tegmental area; Substantia nigra pars compacta; Plateau potential; Slow EPSP; Calcium activated potassium conductance (Overton, P.G. (25) 312)

Reactive oxygen species
Amyloid precursor protein; Astrocyte; Calcium; Inflammatory cytokine; Microglial cell; Transforming growth factor; Tumor necrosis factor (Mattson, M.P. (23) 47)

Receptor
Corticosteroid; Cognition; Animal; Human (Lupien, S.J. (24) 1)

Receptor distribution
Brain renin-angiotensin; Receptor subtype; Tachyphylaxis; Cardiovascular effect; Fluid balance; Learning and memory; Long term potentiation (Wright, J.W. (25) 96)

Receptor subtype
Brain renin-angiotensin; Receptor distribution; Tachyphylaxis; Cardiovascular effect; Fluid balance; Learning and memory; Long term potentiation (Wright, J.W. (25) 96)

Recovery
Stroke; Motor cortex; Localization; Diaschisis (Steinberg, B.A. (25) 125)

Relapse
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Drug abuse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

S

Schizophrenia
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Drug abuse; Relapse; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area; Ventral pallidum (Pierce, R.C. (25) 192)

Septal region
Amygdala; Hippocampus; Prefrontal region; Thalamus; Homeostasis; Instinctive behavior (Risold, P.Y. (24) 197)

Serine proteases
Thrombin; Brain; Neuronal cell death; Pathology; Alzheimer's disease (Turgeon, V.L. (25) 85)

Serotonin
Noradrenaline; Depression; Antidepressant drug; Electroconvulsive shocks treatment; Locus coeruleus; Raphe nucleus; Hippocampal formation (Mongeau, R. (23) 145)

Signal transduction
Alzheimer's disease; Inositol (1,4,5) trisphosphate; Protein kinase C; Oxidative stress; β-Amyloid (Fowler, C.J. (25) 373)

Slow EPSP
Ventral tegmental area; Substantia nigra pars compacta; Plateau potential; Calcium activated potassium conductance; Rat (Overton, P.G. (25) 312)

Somatostatin
Muscle afferent; Substance P; Excitatory amino acid; Dorsal horn; Neuropeptide; Exercise (Wilson, L.B. (23) 196)

Bromodeoxyuridine; Corticotropin-releasing hormone; Dopamine; Growth hormone-releasing hormone; Hypothalamus; Neuroendocrine;

Parvicellular neurosecretory; Thyrotropin-releasing hormone (Markakis, E.A. (24) 255)

Spontaneously hypertensive rats (SHR)
Blood pressure regulation; Brain function; Cadmium poisoning; Calcium/calmodulin; Dopamine synthesis; Epilepsy; Epileptic mice (El mice); Exercise; Hypertension (Sutoo, D. (25) 1)

Steroid receptor
Basal ganglia; Neuropeptide; Neurotransmitter; Limbic system (Risold, P.Y. (24) 91)

Stroke
Alzheimer's disease; β-Amyloid; Vascular; Transgenic mice; Cystatin C (Walker, L.C. (25) 70)

Recovery; Motor cortex; Localization; Diaschisis (Steinberg, B.A. (25) 125)

Substance P
Muscle afferent; Somatostatin; Excitatory amino acid; Dorsal horn; Neuropeptide; Exercise (Wilson, L.B. (23) 196)

Substantia nigra pars compacta
Ventral tegmental area; Plateau potential; Slow EPSP; Calcium activated potassium conductance; Rat (Overton, P.G. (25) 312)

Subthalamic nucleus
Basal ganglia; Globus pallidus; Indirect pathways; Basal ganglia–thalamocortical circuitry; Primate; Huntington's disease (Joel, D. (23) 62)

Synapse formation
Laminin; Laminin isoform; Integrin receptor; Growth cone; Neuronal pathfinding; Alzheimer's disease; Nerve regeneration (Luckenbill-Edds, L. (23) 1)

Syntax
Brain evolution; Broca's area; Language; Parietal lobe; Prefrontal cortex; Temporal lobe; Wernicke's area; Working memory (Aboitiz, F. (25) 381)

T

Tachyphylaxis
Brain renin-angiotensin; Receptor subtype; Receptor distribution; Cardiovascular effect; Fluid balance; Learning and memory; Long term potentiation (Wright, J.W. (25) 96)

Tangle
Advanced glycation end product; Neurodegeneration; Oxidative stress; Alzheimer's disease; Plaque; Neurotoxicity (Münch, G. (23) 134)

Temporal lobe
Brain evolution; Broca's area; Language; Parietal lobe; Prefrontal cortex; Syntax; Wernicke's area; Working memory (Aboitiz, F. (25) 381)

Thalamus
Amygdala; Hippocampus; Prefrontal region; Septal region; Homeostasis; Instinctive behavior (Risold, P.Y. (24) 197)

Thrombin
Serine proteases; Brain; Neuronal cell death; Pathology; Alzheimer's disease (Turgeon, V.L. (25) 85)

Thyrotropin-releasing hormone
Bromodeoxyuridine; Corticotropin-releasing hormone; Dopamine; Growth hormone-releasing hormone; Hypothalamus; Neuroendocrine; Parvicellular neurosecretory; Somatostatin (Markakis, E.A. (24) 255)

Tongue
Oral motor; Neural pathway; Transneuronal; Motor control; Herpesviridae (Fay, R.A. (25) 291)

Transcription factor
AP-1; c-Fos; Zif268; Neocortex; Development (Kaczmarek, L. (23) 237)

Transforming growth factor
Amyloid precursor protein; Astrocyte; Calcium; Inflammatory cytokine; Microglial cell; Reactive oxygen species; Tumor necrosis factor (Mattson, M.P. (23) 47)

Transgenic mice
Alzheimer's disease; β-Amyloid; Vascular; Cystatin C; Stroke (Walker, L.C. (25) 70)

Transneuronal
Jaw; Oral motor; Neural pathway; Motor control; Herpesviridae (Fay, R.A. (25) 255)

Labial; Oral motor; Neural pathway; Motor control; Herpesviridae (Fay, R.A. (25) 276)

Tongue; Oral motor; Neural pathway; Motor control; Herpesviridae (Fay, R.A. (25) 291)

Transport
Blood–brain barrier; Drug; Methodology; Microdialysis (De Lange, E.C.M. (25) 27)

Tumor necrosis factor
Amyloid precursor protein; Astrocyte; Calcium; Inflammatory cytokine; Microglial cell; Reactive oxygen species; Transforming growth factor (Mattson, M.P. (23) 47)

Tyrosine kinase
Growth factor; Neurotrophic; Neuroprotection; Development; Neurotransmission; Neoplasia; Neurotoxicity (Valenzuela, C.F. (24) 77)

V

Vascular
Alzheimer's disease; β-Amyloid; Transgenic mice; Cystatin C; Stroke (Walker, L.C. (25) 70)

Ventral pallidum
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Drug abuse; Relapse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral tegmental area (Pierce, R.C. (25) 192)

Ventral tegmental area
Behavioral sensitization; Dopamine; Excitatory amino acid; Glutamate; Drug abuse; Relapse; Schizophrenia; Nucleus accumbens; Prefrontal cortex; Ventral pallidum (Pierce, R.C. (25) 192)

Substantia nigra pars compacta; Plateau potential; Slow EPSP; Calcium activated potassium conductance; Rat (Overton, P.G. (25) 312)

Voltage-dependent cationic current
Neurotransmitter receptor; Maintained depolarization; Mammalian neuron (Delmas, P. (25) 246)

W

Wernicke's area
Brain evolution; Broca's area; Language; Parietal lobe; Prefrontal cortex; Temporal lobe; Syntax; Working memory (Aboitiz, F. (25) 381)

Working memory
Brain evolution; Broca's area; Language; Parietal lobe; Prefrontal cortex; Temporal lobe; Syntax; Wernicke's area (Aboitiz, F. (25) 381)

Z

Zif268
Transcription factor; AP-1; c-Fos; Neocortex; Development (Kaczmarek, L. (23) 237)

Zinc
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Optical recording; Retrograde labeling; Dextran-conjugated dye; Cell calcium (McPherson, D.R. (1) 157)

Catabolism
Neuropeptide; Neuropeptide degradation; Peptidase; Peptide separation; Brain cell culture; Peptide hormone (Mentlein, R. (1) 237)

CD59 complement inhibitor
Complement; Neurodegeneration; Cell death; Membrane attack complex (Shen, Y. (1) 186)

Cell calcium
Ca^{2+}-sensitive fluorescent dye; Optical recording; Retrograde labeling; Dextran-conjugated dye (McPherson, D.R. (1) 157)

Cell–cell interaction
Central nervous system; Chick cortical neuron; Neuronal aggregation; Neuronal cell culture (Monnerie, H. (1) 344)

Cell culture
Myenteric plexus; Enteric neuron; Enteric glia (Schäfer, K.-H. (1) 109)

Neuroblastoma; Differentiation, in vitro; Cyclic AMP; Staurosporine (Sasaki, K. (1) 399)

Cell death
Complement; Neurodegeneration; Membrane attack complex; CD59 complement inhibitor (Shen, Y. (1) 186)

Cell type marker
Mesencephalic cell culture, rat; Dopamine neuron (Pardo, B. (1) 127)

Cell typing
Cluster analysis; Morphometrics (Schweitzer, L. (1) 91)

Central nervous system
Interleukin-1; Interleukin-1 receptor; Lipopolysaccharide; Digoxigenin; Reverse transcription-polymerase chain reaction; Primer; Genome-octamer (Gabellec, M.-M. (1) 145)

Hybridization, in situ; Immunocytochemistry (Cloëz-Tayarani, I. (1) 195)

Chick cortical neuron; Neuronal aggregation; Neuronal cell culture; Cell–cell interaction (Monnerie, H. (1) 344)

Cerebellum
Endothelin; Radioligand binding; Receptor subtype (Assal, A.A. (1) 23)

Cerebrospinal fluid
Myelin basic protein; Demyelination; Experimental allergic encephalomyelitis; Multiple sclerosis (Najeme, F. (1) 133)

Chick cortical neuron
Central nervous system; Neuronal aggregation; Neuronal cell culture; Cell–cell interaction (Monnerie, H. (1) 344)

Choline
Neurotransmitter; Acetylcholine (ACh); Brain nucleus; Microwave irradiation; Microdissection (Takahashi, A. (1) 70)

Chronic drug infusion
Osmotic minipump; Dynamic concentration gradient; In vivo brain pharmacology (Kasamatsu, T. (1) 57)

Chronic systemic injection
Spontaneous locomotor activity; Huntington's disease; 3-Nitropropionic acid; Rat (Borlongan, C.V. (1) 253)

Cluster analysis
Cell typing; Morphometrics (Schweitzer, L. (1) 91)

CNS
Active substance application; Autologous connective tissue chamber; Hippocampus; Regeneration (Barski, J.-J. (1) 27)

Complement
Neurodegeneration; Cell death; Membrane attack complex; CD59 complement inhibitor (Shen, Y. (1) 186)

Conditioned medium
Extracellular matrix; Endothelial cell; Glial cell (Mizuguchi, H. (1) 339)

Cultured neuron
ATP; Glutamate receptor; Energetic stress (Marcaida, G. (1) 75)

Cyclic AMP
Cell culture; Neuroblastoma; Differentiation, in vitro; Staurosporine (Sasaki, K. (1) 399)

Cytochemical assay
Glucose-6-phosphate dehydrogenase; Spectrophotometric assay; Electrophoretic pattern; Brain area (Ninfali, P. (1) 357)

Cytochemistry
Ecto-enzyme; Glia; Regeneration; Synaptic plasticity; Adenosine (Schoen, S.W. (1) 33)

Cytochrome oxidase
Nitric oxide; Neurotoxicity; Astrocyte; Mitochondria (Bolaños, J.P. (1) 258)

D

Degeneration
Time constant (tau); Whole-cell patch clamp recording; Hippocampal slice; Dendrite; Biocytin; Dentate granule cell (Isokawa, M. (1) 114)

Demyelination
Myelin basic protein; Cerebrospinal fluid; Experimental allergic encephalomyelitis; Multiple sclerosis (Najeme, F. (1) 133)

Dendrite
Time constant (tau); Whole-cell patch clamp recording; Hippocampal slice; Degeneration; Biocytin; Dentate granule cell (Isokawa, M. (1) 114)

Dentate granule cell
Time constant (tau); Whole-cell patch clamp recording; Hippocampal slice; Dendrite; Degeneration; Biocytin (Isokawa, M. (1) 114)

Developmental neurobiology
Neurotransplantation; Grafts retrieval; Activated charcoal (Garnier, C. (1) 327)

Dextran-conjugated dye
Ca^{2+}-sensitive fluorescent dye; Optical recording; Retrograde labeling; Cell calcium (McPherson, D.R. (1) 157)

Differential centrifugation
Human brain; Isopycnic equilibration; Subcellular structure; Electron microscopy; Marker enzyme (Luabeya, M.-K. (1) 83)

Differentiation, in vitro
Cell culture; Neuroblastoma; Cyclic AMP; Staurosporine (Sasaki, K. (1) 399)

Digoxigenin
Interleukin-1; Interleukin-1 receptor; Central nervous system; Lipopolysaccharide; Reverse transcriptiona-polymerase chain reaction; Primer; Genome-octamer (Gabellec, M.-M. (1) 145)

Dipole localization
Bereitschaftspotential; Bereitschaftsmagnetfeld; Magnetoencephalography; Electroencephalography; Movement-related activity (Kristeva-Feige, R. (1) 13)

Dopamine neuron
Mesencephalic cell culture, rat; Cell type marker (Pardo, B. (1) 127)

Dopamine-rich graft
Neural transplantation; Embryonic development; Nigral graft; Ventral mesencephalic graft; Animal model of parkinsonism (Dunnett, S.B. (1) 91)

Drug application
Implant; Neuromuscular system; Neonatal rodent (Connold, A.L. (1) 79)

Dynamic concentration gradient
Osmotic minipump; Chronic drug infusion; In vivo brain pharmacology (Kasamatsu, T. (1) 57)

E

Ecto-enzyme
Cytochemistry; Glia; Regeneration; Synaptic plasticity; Adenosine (Schoen, S.W. (1) 33)

EEG burst suppression
Anesthesia induction; Intravenous infusion; Rat; Intravenous anesthetics (Korkmaz, S. (1) 378)

Electroencephalography
Bereitschaftspotential; Bereitschaftsmagnetfeld; Magnetoencephalography; Dipole localization; Movement-related activity (Kristeva-Feige, R. (1) 13)

Electron microscopy
Human brain; Differential centrifugation; Isopycnic equilibration; Subcellular structure; Marker enzyme (Luabeya, M.-K. (1) 83)

Electron probe microanalysis
Acetylcholinesterase activity; Elemental environment; Rat brain section (Pogorelov, A. (1) 44)

Electrophoretic pattern
Glucose-6-phosphate dehydrogenase; Cytochemical assay; Spectrophotometric assay; Brain area (Ninfali, P. (1) 357)

Elemental environment
Acetylcholinesterase activity; Electron probe microanalysis; Rat brain section (Pogorelov, A. (1) 44)

Embryonic development
Neural transplantation; Dopamine-rich graft; Nigral graft; Ventral mesencephalic graft; Animal model of parkinsonism (Dunnett, S.B. (1) 91)

Endothelial cell
Extracellular matrix; Conditioned medium; Glial cell (Mizuguchi, H. (1) 339)

Endothelin
Cerebellum; Radioligand binding; Receptor subtype (Assal, A.A. (1) 23)

Energetic stress
ATP; Cultured neuron; Glutamate receptor (Marcaida, G. (1) 75)

Enteric glia
Myenteric plexus; Enteric neuron; Cell culture (Schäfer, K.-H. (1) 109)

Enteric neuron
Myenteric plexus; Enteric glia; Cell culture (Schäfer, K.-H. (1) 109)

N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline
Serotonin; Serotonin 5-HT_{1A} receptor; Receptor inactivation; Receptor turnover; Aging (Keck, B.J. (1) 364)

Excitotoxicity
Glutamate receptor; Neuronal damage; Osmotic minipump; AMPA; Non-NMDA receptor; Amyotrophic lateral sclerosis (Nakamura, R. (1) 385)

Experimental allergic encephalomyelitis
Myelin basic protein; Demyelination; Cerebrospinal fluid; Multiple sclerosis (Najeme, F. (1) 133)

Expression
mRNA; Receptor subunit gene; Polymerase chain reaction (Lewohl, J.M. (1) 347)

Extracellular matrix
Conditioned medium; Endothelial cell; Glial cell (Mizuguchi, H. (1) 339)

F

D-Fenfluramine
Phosphoinositide breakdown; Rat cortex; Serotonin; Oxygenation; Tranylcypromine (Erfurth, A. (1) 139)

Fluorescence immunohistochemistry
Neuropeptide; Gene expression; Rhodamine latex microsphere; Neuronal tract tracing (Senatorov, V.V. (1) 49)

Frog taste nerve
Neurophysiology; Bitterness inhibitor; Phosphatidic acid; Liporotein; β-Lactoglobulin; Human taste sensation (Katsuragi, Y. (1) 292)

G

Ganglioside
Immunohistochemistry; Monoclonal antibody; Rat brain (Kotani, M. (1) 152)

GAP-43 expression
Hybridization, in situ; Human development (Kanazir, S. (1) 280)

Gene expression
Neuropeptide; Fluorescence immunohistochemistry; Rhodamine latex microsphere; Neuronal tract tracing (Senatorov, V.V. (1) 49)

Hybridization, in situ; Messenger RNA detection; Adrenergic receptor; Human tissue (Wilson, K.H. (1) 175)

Genome-octamer
Interleukin-1; Interleukin-1 receptor; Central nervous system; Lipopolysaccharide; Digoxigenin; Reverse transcription-polymerase chain reaction; Primer (Gabellec, M.-M. (1) 145)

Genotype
Simple sequence repeat; Polymerase chain reaction; Transgenic screening (Campbell, D.B. (1) 117)

Glia
Ecto-enzyme; Cytochemistry; Regeneration; Synaptic plasticity; Adenosine (Schoen, S.W. (1) 33)

Glial cell
High-performance liquid chromatography (HPLC); Arachidonic acid (AA); Prostaglandin (PG); Leukotriene (LT) (Matsuo, M. (1) 124)

Extracellular matrix; Conditioned medium; Endothelial cell (Mizuguchi, H. (1) 339)

Glucocorticoid
Brain heme oxygenase 2 (HO-2); Bile pigment; Heme degradation; Antioxidant; Bilirubin; Carbon monoxide (Ewing, J.F. (1) 165)

Glucose-6-phosphate dehydrogenase
Cytochemical assay; Spectrophotometric assay; Electrophoretic pattern; Brain area (Ninfali, P. (1) 357)

Glutamate receptor
ATP; Cultured neuron; Energetic stress (Marcaida, G. (1) 75)

Neuronal damage; Excitotoxicity; Osmotic minipump; AMPA; Non-NMDA receptor; Amyotrophic lateral sclerosis (Nakamura, R. (1) 385)

Glycation
Alzheimer disease; Amyloid; Paired helical filament; Solubilization (Smith, M.A. (1) 247)

Grafts retrieval
Neurotransplantation; Activated charcoal; Developmental neurobiology (Garnier, C. (1) 327)

H

Heme degradation
Brain heme oxygenase 2 (HO-2); Bile pigment; Antioxidant; Bilirubin; Carbon monoxide; Glucocorticoid (Ewing, J.F. (1) 165)

High-performance liquid chromatography (HPLC)
Arachidonic acid (AA); Prostaglandin (PG); Leukotriene (LT); Glial cell (Matsuo, M. (1) 124)

Hippocampal slice
Time constant (tau); Whole-cell patch clamp recording; Dendrite; Degeneration; Biocytin; Dentate granule cell (Isokawa, M. (1) 114)

Hippocampus
Active substance application; CNS; Autologous connective tissue chamber; Regeneration (Barski, J.-J. (1) 27)

Histochemistry
Neuroanatomical tracing; Uptake and transport; Retrograde tracing; Neuroanatomy; Axonal labeling (Van der Want, J.J.L. (1) 269)

Holeboard, reference memory
Spatial learning and memory; Trial-independent memory; Mice (Brosnan-Watters, G. (1) 331)

Hormone
Reproduction; Psychopharmacology; Neurotransmitter (Ågmo, A. (1) 203)

Human brain
Differential centrifugation; Isopycnic equilibration; Subcellular structure; Electron microscopy; Marker enzyme (Luabeya, M.-K. (1) 83)

mRNA hybridisation, in situ; Immunohistochemistry; Calcium channel (McCormack, A.L. (1) 299)

Human development
Hybridization, in situ; GAP-43 expression (Kanazir, S. (1) 280)

Human taste sensation
Neurophysiology; Bitterness inhibitor; Phosphatidic acid; Liporotein; Frog taste nerve; β-Lactoglobulin (Katsuragi, Y. (1) 292)

Human tissue
Hybridization, in situ; Messenger RNA detection; Adrenergic receptor; Gene expression (Wilson, K.H. (1) 175)

Huntington's disease
Spontaneous locomotor activity; 3-Nitropropionic acid; Chronic systemic injection; Rat (Borlongan, C.V. (1) 253)

Hybridization, in situ
Messenger RNA detection; Adrenergic receptor; Gene expression; Human tissue (Wilson, K.H. (1) 175)

Immunocytochemistry; Central nervous system (Cloëz-Tayarani, I. (1) 195)

GAP-43 expression; Human development (Kanazir, S. (1) 280)

I

Immunocytochemistry
Hybridization, in situ; Central nervous system (Cloëz-Tayarani, I. (1) 195)

Immunohistochemistry
Monoclonal antibody; Ganglioside; Rat brain (Kotani, M. (1) 152)

Human brain; mRNA hybridisation, in situ; Calcium channel (McCormack, A.L. (1) 299)

Implant
Drug application; Neuromuscular system; Neonatal rodent (Connold, A.L. (1) 79)

Interleukin-1
Interleukin-1 receptor; Central nervous system; Lipopolysaccharide; Digoxigenin; Reverse transcription-polymerase chain reaction; Primer; Genome-octamer (Gabellec, M.-M. (1) 145)

Interleukin-1 receptor
Interleukin-1; Central nervous system; Lipopolysaccharide; Digoxigenin; Reverse transcription-polymerase chain reaction; Primer; Genome-octamer (Gabellec, M.-M. (1) 145)

Intracerebroventricular
Behavioral neurobiology; Spontaneous motor activity; Rearing behavior; Thyrotropin-releasing hormone; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide (Masuo, Y. (1) 321)

Intravenous anesthetics
EEG burst suppression; Anesthesia induction; Intravenous infusion; Rat (Korkmaz, S. (1) 378)

Intravenous infusion
EEG burst suppression; Anesthesia induction; Rat; Intravenous anesthetics (Korkmaz, S. (1) 378)

In vivo brain pharmacology
Osmotic minipump; Chronic drug infusion; Dynamic concentration gradient (Kasamatsu, T. (1) 57)

Isopycnic equilibration
Human brain; Differential centrifugation; Subcellular structure; Electron microscopy; Marker enzyme (Luabeya, M.-K. (1) 83)

L

***β*-Lactoglobulin**
Neurophysiology; Bitterness inhibitor; Phosphatidic acid; Liporotein; Frog taste nerve; Human taste sensation (Katsuragi, Y. (1) 292)

Leukotriene (LT)
High-performance liquid chromatography (HPLC); Arachidonic acid (AA); Prostaglandin (PG); Glial cell (Matsuo, M. (1) 124)

Lipopolysaccharide
Interleukin-1; Interleukin-1 receptor; Central nervous system; Digoxigenin; Reverse transcription-polymerase chain reaction; Primer; Genome-octamer (Gabellec, M.-M. (1) 145)

Liporotein
Neurophysiology; Bitterness inhibitor; Phosphatidic acid; Frog taste nerve; *β*-Lactoglobulin; Human taste sensation (Katsuragi, Y. (1) 292)

M

Magnetoencephalography
Bereitschaftspotential; Bereitschaftsmagnetfeld; Electroencephalography; Dipole localization; Movement-related activity (Kristeva-Feige, R. (1) 13)

Marker enzyme
Human brain; Differential centrifugation; Isopycnic equilibration; Subcellular structure; Electron microscopy (Luabeya, M.-K. (1) 83)

T-Maze
Approach-avoidance task; Appetitive-aversive memory (Kumar, K.B. (1) 263)

Membrane attack complex
Complement; Neurodegeneration; Cell death; CD59 complement inhibitor (Shen, Y. (1) 186)

Membrane potential
Synaptic plasma membranes; Neurotransmitter uptake and release (Gonçalves, P.P. (1) 1)

Mesencephalic cell culture, rat
Dopamine neuron; Cell type marker (Pardo, B. (1) 127)

Messenger RNA detection
Hybridization, in situ; Adrenergic receptor; Gene expression; Human tissue (Wilson, K.H. (1) 175)

***N*-Methyl-D-aspartate receptor**
γ-Aminobutyric acid; Middle cerebral artery occlusion; Osmotic pump; Substantia nigra; Transneuronal degeneration (Yamada, K. (1) 371)

Mice
Spatial learning and memory; Holeboard, reference memory; Trial-independent memory (Brosnan-Watters, G. (1) 331)

Microdissection
Neurotransmitter; Acetylcholine (ACh); Choline; Brain nucleus; Microwave irradiation (Takahashi, A. (1) 70)

Microwave irradiation
Neurotransmitter; Acetylcholine (ACh); Choline; Brain nucleus; Microdissection (Takahashi, A. (1) 70)

Middle cerebral artery occlusion
γ-Aminobutyric acid; *N*-Methyl-D-aspartate receptor; Osmotic pump; Substantia nigra; Transneuronal degeneration (Yamada, K. (1) 371)

Mitochondria
Nitric oxide; Neurotoxicity; Astrocyte; Cytochrome oxidase (Bolaños, J.P. (1) 258)

Monoclonal antibody
Immunohistochemistry; Ganglioside; Rat brain (Kotani, M. (1) 152)

Morphometrics
Cell typing; Cluster analysis (Schweitzer, L. (1) 91)

Movement-related activity
Bereitschaftspotential; Bereitschaftsmagnetfeld; Magnetoencephalography; Electroencephalography; Dipole localization (Kristeva-Feige, R. (1) 13)

Multiple sclerosis
Myelin basic protein; Demyelination; Cerebrospinal fluid; Experimental allergic encephalomyelitis (Najeme, F. (1) 133)

Myelin basic protein
Demyelination; Cerebrospinal fluid; Experimental allergic encephalomyelitis; Multiple sclerosis (Najeme, F. (1) 133)

Myenteric plexus
Enteric neuron; Enteric glia; Cell culture (Schäfer, K.-H. (1) 109)

N

Neonatal rodent
Implant; Drug application; Neuromuscular system (Connold, A.L. (1) 79)

Neural transplantation
Embryonic development; Dopamine-rich graft; Nigral graft; Ventral mesencephalic graft; Animal model of parkinsonism (Dunnett, S.B. (1) 91)

Neuroanatomical tracing
Uptake and transport; Retrograde tracing; Histochemistry; Neuroanatomy; Axonal labeling (Van der Want, J.J.L. (1) 269)

Neuroanatomy
Neuroanatomical tracing; Uptake and transport; Retrograde tracing; Histochemistry; Axonal labeling (Van der Want, J.J.L. (1) 269)

Neuroblastoma
Cell culture; Differentiation, in vitro; Cyclic AMP; Staurosporine (Sasaki, K. (1) 399)

Neurodegeneration
Complement; Cell death; Membrane attack complex; CD59 complement inhibitor (Shen, Y. (1) 186)

Neuromuscular system
Implant; Drug application; Neonatal rodent (Connold, A.L. (1) 79)

Neuronal aggregation
Central nervous system; Chick cortical neuron; Neuronal cell culture; Cell–cell interaction (Monnerie, H. (1) 344)

Neuronal cell culture
Central nervous system; Chick cortical neuron; Neuronal aggregation; Cell–cell interaction (Monnerie, H. (1) 344)

Neuronal damage
Glutamate receptor; Excitotoxicity; Osmotic minipump; AMPA; Non-NMDA receptor; Amyotrophic lateral sclerosis (Nakamura, R. (1) 385)

Neuronal tract tracing
Neuropeptide; Gene expression; Fluorescence immunohistochemistry; Rhodamine latex microsphere (Senatorov, V.V. (1) 49)

Neuropeptide
Gene expression; Fluorescence immunohistochemistry; Rhodamine latex microsphere; Neuronal tract tracing (Senatorov, V.V. (1) 49)

Neuropeptide degradation; Peptidase; Catabolism; Peptide separation; Brain cell culture; Peptide hormone (Mentlein, R. (1) 237)

Neuropeptide degradation
Neuropeptide; Peptidase; Catabolism; Peptide separation; Brain cell culture; Peptide hormone (Mentlein, R. (1) 237)

Neurophysiology
Bitterness inhibitor; Phosphatidic acid; Liporotein; Frog taste nerve; β-Lactoglobulin; Human taste sensation (Katsuragi, Y. (1) 292)

Neurotoxicity
Nitric oxide; Astrocyte; Cytochrome oxidase; Mitochondria (Bolaños, J.P. (1) 258)

Neurotransmitter
Acetylcholine (ACh); Choline; Brain nucleus; Microwave irradiation; Microdissection (Takahashi, A. (1) 70)

Reproduction; Hormone; Psychopharmacology (Ågmo, A. (1) 203)

Neurotransmitter uptake and release
Synaptic plasma membranes; Membrane potential (Gonçalves, P.P. (1) 1)

Neurotransplantation
Grafts retrieval; Activated charcoal; Developmental neurobiology (Garnier, C. (1) 327)

Nigral graft
Neural transplantation; Embryonic development; Dopamine-rich graft; Ventral mesencephalic graft; Animal model of parkinsonism (Dunnett, S.B. (1) 91)

Nitric oxide
Neurotoxicity; Astrocyte; Cytochrome oxidase; Mitochondria (Bolaños, J.P. (1) 258)

3-Nitropropionic acid
Spontaneous locomotor activity; Huntington's disease; Chronic systemic injection; Rat (Borlongan, C.V. (1) 253)

Non-NMDA receptor
Glutamate receptor; Neuronal damage; Excitotoxicity; Osmotic minipump; AMPA; Amyotrophic lateral sclerosis (Nakamura, R. (1) 385)

O

Odor response
Olfactory bulbar response; Turtle (Kashiwayanagi, M. (1) 287)

Olfactory bulbar response
Turtle; Odor response (Kashiwayanagi, M. (1) 287)

Optical recording
Ca^{2+}-sensitive fluorescent dye; Retrograde labeling; Dextran-conjugated dye; Cell calcium (McPherson, D.R. (1) 157)

Osmotic minipump
Chronic drug infusion; Dynamic concentration gradient; In vivo brain pharmacology (Kasamatsu, T. (1) 57)

Glutamate receptor; Neuronal damage; Excitotoxicity; AMPA; Non-NMDA receptor; Amyotrophic lateral sclerosis (Nakamura, R. (1) 385)

Osmotic pump
γ-Aminobutyric acid; Middle cerebral artery occlusion; *N*-Methyl-D-aspartate receptor; Substantia nigra; Transneuronal degeneration (Yamada, K. (1) 371)

Oxygenation
Phosphoinositide breakdown; Rat cortex; Serotonin; D-Fenfluramine; Tranylcypromine (Erfurth, A. (1) 139)

P

Paired helical filament
Alzheimer disease; Amyloid; Glycation; Solubilization (Smith, M.A. (1) 247)

Passive avoidance conditioning
Temporal memory processing; Tetrodotoxin inactivation (Ambrogi Lorenzini, C.G. (1) 391)

Peptidase
Neuropeptide; Neuropeptide degradation; Catabolism; Peptide separation; Brain cell culture; Peptide hormone (Mentlein, R. (1) 237)

Peptide hormone
Neuropeptide; Neuropeptide degradation; Peptidase; Catabolism; Peptide separation; Brain cell culture (Mentlein, R. (1) 237)

Peptide separation
Neuropeptide; Neuropeptide degradation; Peptidase; Catabolism; Brain cell culture; Peptide hormone (Mentlein, R. (1) 237)

Phosphatidic acid
Neurophysiology; Bitterness inhibitor; Liporotein; Frog taste nerve; β-Lactoglobulin; Human taste sensation (Katsuragi, Y. (1) 292)

Phosphoinositide breakdown
Rat cortex; Serotonin; D-Fenfluramine; Oxygenation; Tranylcypromine (Erfurth, A. (1) 139)

Pituitary adenylate cyclase-activating polypeptide
Behavioral neurobiology; Spontaneous motor activity; Rearing behavior; Intracerebroventricular; Thyrotropin-releasing hormone; Vasoactive intestinal polypeptide (Masuo, Y. (1) 321)

Polymerase chain reaction
Genotype; Simple sequence repeat; Transgenic screening (Campbell, D.B. (1) 117)

Expression; mRNA; Receptor subunit gene (Lewohl, J.M. (1) 347)

Primer
Interleukin-1; Interleukin-1 receptor; Central nervous system; Lipopolysaccharide; Digoxigenin; Reverse transcription-polymerase chain reaction; Genome-octamer (Gabellec, M.-M. (1) 145)

Prostaglandin (PG)
High-performance liquid chromatography (HPLC); Arachidonic acid (AA); Leukotriene (LT); Glial cell (Matsuo, M. (1) 124)

Psychopharmacology
Reproduction; Hormone; Neurotransmitter (Ågmo, A. (1) 203)

R

Radioligand binding
Endothelin; Cerebellum; Receptor subtype (Assal, A.A. (1) 23)

Rat
Spontaneous locomotor activity; Huntington's disease; 3-Nitropropionic acid; Chronic systemic injection (Borlongan, C.V. (1) 253)

EEG burst suppression; Anesthesia induction; Intravenous infusion; Intravenous anesthetics (Korkmaz, S. (1) 378)

Rat brain
Immunohistochemistry; Monoclonal antibody; Ganglioside (Kotani, M. (1) 152)

Rat brain section
Acetylcholinesterase activity; Elemental environment; Electron probe microanalysis (Pogorelov, A. (1) 44)

Rat cortex
Phosphoinositide breakdown; Serotonin; D-Fenfluramine; Oxygenation; Tranylcypromine (Erfurth, A. (1) 139)

Rearing behavior
Behavioral neurobiology; Spontaneous motor activity; Intracerebroventricular; Thyrotropin-releasing hormone; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide (Masuo, Y. (1) 321)

Receptor inactivation
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Serotonin; Serotonin 5-HT_{1A} receptor; Receptor turnover; Aging (Keck, B.J. (1) 364)

Receptor subtype
Endothelin; Cerebellum; Radioligand binding (Assal, A.A. (1) 23)

Receptor subunit gene
Expression; mRNA; Polymerase chain reaction (Lewohl, J.M. (1) 347)

Receptor turnover
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Serotonin; Serotonin 5-HT_{1A} receptor; Receptor inactivation; Aging (Keck, B.J. (1) 364)

Regeneration
Active substance application; CNS; Autologous connective tissue chamber; Hippocampus (Barski, J.-J. (1) 27)

Ecto-enzyme; Cytochemistry; Glia; Synaptic plasticity; Adenosine (Schoen, S.W. (1) 33)

Reproduction
Hormone; Psychopharmacology; Neurotransmitter (Ågmo, A. (1) 203)

Retrograde labeling
Ca^{2+}-sensitive fluorescent dye; Optical recording; Dextran-conjugated dye; Cell calcium (McPherson, D.R. (1) 157)

Retrograde tracing
Neuroanatomical tracing; Uptake and transport; Histochemistry; Neuroanatomy; Axonal labeling (Van der Want, J.J.L. (1) 269)

Reverse transcription-polymerase chain reaction
Interleukin-1; Interleukin-1 receptor; Central nervous system; Lipopolysaccharide; Digoxigenin; Primer; Genome-octamer (Gabellec, M.-M. (1) 145)

Rhodamine latex microsphere
Neuropeptide; Gene expression; Fluorescence immunohistochemistry; Neuronal tract tracing (Senatorov, V.V. (1) 49)

mRNA
Expression; Receptor subunit gene; Polymerase chain reaction (Lewohl, J.M. (1) 347)

mRNA hybridisation, in situ
Human brain; Immunohistochemistry; Calcium channel (McCormack, A.L. (1) 299)

S

Serotonin
Phosphoinositide breakdown; Rat cortex; D-Fenfluramine; Oxygenation; Tranylcypromine (Erfurth, A. (1) 139)

N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Serotonin 5-HT_{1A} receptor; Receptor inactivation; Receptor turnover; Aging (Keck, B.J. (1) 364)

Serotonin 5-HT_{1A} receptor
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Serotonin; Receptor inactivation; Receptor turnover; Aging (Keck, B.J. (1) 364)

Simple sequence repeat
Genotype; Polymerase chain reaction; Transgenic screening (Campbell, D.B. (1) 117)

Solubilization
Alzheimer disease; Amyloid; Glycation; Paired helical filament (Smith, M.A. (1) 247)

Spatial learning and memory
Holeboard, reference memory; Trial-independent memory; Mice (Brosnan-Watters, G. (1) 331)

Spectrophotometric assay
Glucose-6-phosphate dehydrogenase; Cytochemical assay; Electrophoretic pattern; Brain area (Ninfali, P. (1) 357)

Spontaneous locomotor activity
Huntington's disease; 3-Nitropropionic acid; Chronic systemic injection; Rat (Borlongan, C.V. (1) 253)

Spontaneous motor activity
Behavioral neurobiology; Rearing behavior; Intracerebroventricular; Thyrotropin-releasing hormone; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide (Masuo, Y. (1) 321)

Staurosporine
Cell culture; Neuroblastoma; Differentiation, in vitro; Cyclic AMP (Sasaki, K. (1) 399)

Subcellular structure
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